B I D D I N G D O C U M E N T S

Issued on: 9th April 2013

for

Procurement of

MEDICAL AND NON-MEDICAL EQUIPMENT

for

"District Health Project"

Through

International Competitive Bidding

IFB No: LMD-KfW/2012-13/ICB-1

Financed from funds of

German Financial Cooperation / KfW

(BMZ No. 2002-65-959)

Purchaser: *Government of Nepal, Ministry of Health and Population, Department of Health Services, Logistic Management Division (LMD), Teku, Kathmandu, Nepal*

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Invitation for Bids (IFB)

German Financial Cooperation / KfW
(BMZ No. 2002-65-959)

Supply and Delivery of
MEDICAL AND NON-MEDICAL EQUIPMENT
for
"District Health Project"
IFB Number: LMD-KfW/2012-13/ICB-1

First date of Publication: 9th April 2013.

1. The Government of Nepal has received funding from the German Government through Kreditanstalt fuer Wiederaufbau (KfW), and it is intended that part of the proceeds of these funds be applied to eligible payments under the contract for the **DISTRICT HEALTH PROJECT, NEPAL (BMZ No. 2002-65-959).**

2. The Ministry of Health and Population, through its Department of Health Services, Logistics management Division now invites sealed bids from eligible bidders for the supply of: **MEDICAL AND NON-MEDICAL EQUIPMENT AND INCIDENTAL SERVICES** FOR SIX HOSPITALS / HEALTH CARE CENTRES IN DIFFERENT LOCATIONS under one package of 8 Lots as detailed in the table below:

Lot No	Description of Goods	Total Quantity
1	1.1) Autoclave for CSSD, approx. 80l, stand alone	3
	1.2) Water treatment for Autoclave CSSD	3
2	2.1) Bilirubinmeter	2
	2.2) Biochemistry semi auto-analyzer	1
	2.3) Colorimeter	1
	2.4) DLC-Counter, manual	5
	2.5) Micropipete Set 10um - 100um	5
	2.6) Serological pipettes (glas), 1,2,5,10ml	525
	2.7) Hot Air Oven	3
	2.8) Refrigerator, universal w.deep freeze, lockable	6
	2.9) Incubator, Laboratory	3
	2.10) Spender, desinfection	6
3	3.1) Patient bed with side table	24
	3.2) Patient trolley with castors, lockable	5
	3.3) Cuff, children and baby,for Sphygmomanometer handheld	6
	3.4) Nebulizer	12
	3.5) Oxygen concentrator	3
	3.6) Oxygen cylinder, 1.6m³, incl. refilling tool	6
	3.7) Pulse oxymeter, handheld, fingertip	2
	3.8) Ultrasound-Foetoscope Doppler, handheld	3
	3.9) ECG Machine, user-selectable: 3- or 6-channel formats (12 standard leads)	3
	3.10) Delivery instrument set	10

Lot No	Description of Goods	Total Quantity
	3.11) Suction pump vacuum, portable, electric	1
	3.12) Suction pump vacuum, portable, foot operated	1
	3.13) Post-mortem set, el.	6
	3.14) ENT-Set	6
	3.15) Dark room accessories	3
	3.16) Resuscitation set, in suitcase	6
	3.17) High pressure station	1
	3.18) Solar water heating (200 l)	3
4	4.1) Ultrasound Scanner, portable	3
5	5.1) 100 mA X ray unit with voltage stabiliser	3
6	6.1) generator, 3-ph., diesel operated, 40 kVA	1
	6.2) generator, single-ph., diesel op., 10 kVA	3
7	7.1) Test equipment: Anaesthesia unit calibration	2
	7.2) Test equipment: MA meter (X-Ray)	2
	7.3) Test equipment: MOhm-meter (Insulation Test)	2
	7.4) Test equipment: Oscilloscope	2
	7.5) Maintenance Tool Set	2
8	8.1) 250 KVA Voltage stabiliser for placement at main transformer for Bheri ZH	1
	8.2) 100 KVA Voltage stabiliser for placement at mains for Bardiya and Dhading DH	2

3 The MoHP, Department of Health services (DoHS), Logistic Management Division (LMD) now invites sealed bids from eligible and qualified bidders for **MEDICAL AND NON-MEDICAL EQUIPMENT SUPPLY AND INCIDENTAL SERVICES** to be delivered to various health facilities in Nepal. Bidders may bid for one or more lot and shall indicate this in their bid form, together with any statement on discount / cross discount if any.

4 A bidder should quote for the complete quantity of items in each lot. Evaluation will be done by complete lot with the final awards being determined based on the combination of contracts that is of least cost to the purchaser. Only in case for lots 2 or 3 an award for the complete lot is not possible, award will be made on an item by item basis for the lot concerned. In the latter case partial bids, if any, will be considered.

5. Bidding will be conducted through the International Competitive Bidding (ICB) procedures, and is open to all bidders from Eligible Source Countries as defined in the Guidelines. The tender process and contract award is governed by GoN Public Procurement Act and subsidiary regulations, as well as KfW's Guidelines for the Procurement of Supply and Works Contracts under Financial Cooperation with Developing Countries, available at: http://www.kfw-Entwicklungsbank.de/EN_Home/Service/Online_Library/Guidlines.jsp.

6. Interested eligible bidders may obtain further information from the Director, e-mail director@dohslmd.gov.np of the Logistic Management Division (LMD) Department of Health Services MoHP and inspect the Bidding Documents at the address given below from1100 to 1600 hours (local time) on office days.

7 A complete set of Bidding Documents in English may be purchased by interested bidders on the submission of a written Application to the address below and upon payment of a nonrefundable fee of **NRs 3,000.00 or US$ 40.00**. The method of payment will be in the form of a cash deposit certificate in Revenue Title no 14227, Office code no. 27-370-11, Account no. Ka-1-1-001 of Rastriya Banijya Bank, Teku Branch. Foreign Bidders may also pay through a bank draft in favour of the LMD, or may receive the (numbered) Bidding Documents from the LMD upon presentation of Cash Payment Receipt from Financial Administration Section of DoHS

8. The Documents will be available at the LMD at the address below from the **9th April 2013** until the **24th May 2013,** 12:00 Hours (Local Time)**.** When the Bidding Documents needs to be sent reliable courier services will be used for which the prospective Bidder has to pay on submission of a request letter an additional non-refundable fee of NRs 4,000.00 or US$ 50.00. The LMD however will not be responsible for any delay or non-delivery of the documents sent.

9. Bids must be delivered to the address below at or before **24th May 2013, 12.00 Hours (Local Time)**. Electronic bidding will not be permitted. Late bids will be rejected. Bids will be opened in the presence of the bidders' representatives who choose to attend in person at the address below at **24th May 2013,** 12:15 Hours (Local Time). All bids must be accompanied by a Bid Security not less than 2.5% of the Bid Price in accordance with ITB Clause 21 in a freely convertible currency.

10. The address referred to above is as follows

The Director of the Logistic Management Division (LMD),
Department of Health services (DoHS), Ministry of Health & Population (MoPH)
Off: Teku Road, Teku, Pachali, Kathmandu, Tel: off (+977) (0) 1 426 1768
Fax off (+977) (0) 1 426 1413;
e-mail address Procurement Department: director@dohslmd.gov.np

PART 1 – Bidding Procedures

Section I. Instructions to Bidders

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Section I. Instructions to Bidders

A. General

1. Scope of Bid

1.1 The Purchaser **indicated in the Bidding Data Sheet (BDS),** issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VI, Schedule of Requirements. The name and identification number of this International Competitive Bidding (ICB) procurement are **specified in the BDS.** The name, identification, and number of lots of are **provided in the BDS.**

1.2 Throughout these Bidding Documents:

(a) the term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, telex) with proof of receipt;

(b) if the context so requires, "singular" means "plural" and vice versa; and

(c) "day" means calendar day.

2. Source of Funds

2.1 The Borrower or Recipient (hereinafter called "Borrower") **specified in the BDS** has applied for or received financing (hereinafter called "funds") from the German Government through Kreditanstalt fuer Wiederaufbau, (hereinafter called "the Bank") toward the cost of the project **named in the BDS.** The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.

2.2 Payments by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the financing agreement between the Borrower and the Bank (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan Agreement. The Loan Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the funds.

3. Fraud and Corruption

3.1 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), as well as bidders, suppliers, and contractors and their subcontractors under Bank-financed contracts, observe the highest standard of ethics during the

procurement and execution of such contracts.[1] In pursuance of this policy, the Bank:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice"[2] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) "fraudulent practice" [3] is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "collusive practice"[4] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "coercive practice" [5] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under sub-clause 3.1 (e) below.

(b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an

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1 *In this context, any action taken by a bidder, supplier, contractor, or a sub-contractor to influence the procurement process or contract execution for undue advantage is improper.*

2 *"another party" refers to a public official acting in relation to the procurement process or contract execution]. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.*

3 *a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.*

4 *"parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.*

5 *a "party" refers to a participant in the procurement process or contract execution.*

agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;

(c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur;

(d) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a Bank-financed contract; and

(e) will have the right to require that a provision be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers, and contractors and their sub-contractors to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

3.2 Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 34.1 (a) (iii) of the General Conditions of Contract.

4. Eligible Bidders

4.1 A Bidder, and all parties constituting the Bidder, may have the nationality of any country, subject to the restrictions specified in Section V, Eligible Countries. A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including Related Services.

4.2 A Bidder shall not have a conflict of interest. All bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they:

(a) are or have been associated in the past, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under these

Bidding Documents ; or

(b) submit more than one bid in this bidding process, except for alternative offers permitted under ITB Clause 13. However, this does not limit the participation of subcontractors in more than one bid;

4.3 A Bidder that is under a declaration of ineligibility by the Bank in accordance with ITB Clause 3, at the date of contract award, shall be disqualified. The list of debarred firms is available at the electronic address specified in the **BDS.**

4.4 A firm that has been determined to be ineligible by the Bank in relation to the Bank Guidelines On Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants shall be not be eligible to be awarded a contract.

4.5 Government-owned enterprises in the Borrower's Country shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Purchaser.

4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

5. Eligible Goods and Related Services

5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.

5.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.

5.3 The term "origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Bidding Documents

6. Sections of Bidding Documents

6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addendum issued in accordance with ITB Clause 8.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)

- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries

PART 2 Supply Requirements

- Section VI. Schedule of Requirements

PART 3 Contract

- Section VII. General Conditions of Contract (GCC)
- Section VIII. Special Conditions of Contract (SCC)
- Section IX. Contract Forms

6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Documents.

6.3 The Purchaser is not responsible for the completeness of the Bidding Documents and their addendum, if they were not obtained directly from the Purchaser.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.

7. Clarification of Bidding Documents

7.1 A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address **specified in the BDS.** The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than twenty-one (21) days prior to the deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8 and ITB Sub-Clause 24.2.

8. Amendment of Bidding Documents

8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum.

8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents directly from the Purchaser.

8.3 To give prospective Bidders reasonable time in which to take an

addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 24.2

C. Preparation of Bids

9. Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

10. Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the language **specified in the BDS.** Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language **specified in the BDS,** in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents Comprising the Bid

11.1 The Bid shall comprise the following:

(a) Bid Submission Form and the applicable Price Schedules, in accordance with ITB Clauses 12, 14, and 15;

(b) Bid Security or Bid-Securing Declaration, in accordance with ITB Clause 21, if required;

(c) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 22;

(d) documentary evidence in accordance with ITB Clause 16 establishing the Bidder's eligibility to bid;

(e) documentary evidence in accordance with ITB Clause 17, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;

(f) documentary evidence in accordance with ITB Clauses 18 and 30, that the Goods and Related Services conform to the Bidding Documents;

(g) documentary evidence in accordance with ITB Clause 19 establishing the Bidder's qualifications to perform the contract if its bid is accepted; and

(h) any other document **required in the BDS.**

12. Bid Submission Form and Price Schedules

12.1 The Bidder shall submit the Bid Submission Form using the form furnished in Section IV, Bidding Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

12.2 The Bidder shall submit the Price Schedules for Goods and Related Services, according to their origin as appropriate, using the forms furnished in Section IV, Bidding Forms

13. Alternative Bids

13.1 Unless otherwise **specified in the BDS,** alternative bids shall not be considered.

14. Bid Prices and Discounts

14.1 The prices and discounts quoted by the Bidder in the Bid Submission Form and in the Price Schedules shall conform to the requirements specified below.

14.2 All lots and items must be listed and priced separately in the Price Schedules.

14.3 The price to be quoted in the Bid Submission Form shall be the total price of the bid, excluding any discounts offered.

14.4 The Bidder shall quote any unconditional discounts and indicate the method for their application in the Bid Submission Form.

14.5 The terms EXW, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, as specified in the **BDS.**

14.6 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V Eligible Countries. Prices shall be entered in the following manner:

(a) For Goods manufactured in the Purchaser's Country:

(i) the price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

(ii) any Purchaser's Country sales tax and other taxes which will be payable on the Goods if the contract is awarded to the Bidder; and

(iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) specified in the **BDS.**

(b) For Goods manufactured outside the Purchaser's Country, to be imported:

(i) the price of the Goods, quoted CIP named place of destination, in the Purchaser's Country, or CIF named port of destination, as specified in the **BDS;**

(ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified in the **BDS;**

(iii) in addition to the CIP prices specified in (b)(i) above, the price of the Goods to be imported may be quoted FCA (named place of destination) or CPT (named place of destination), if so specified in the **BDS;**

(c) For Goods manufactured outside the Purchaser's Country, already imported:

[For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been and/or have to be paid by the Purchaser. For clarity the bidders are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties which is the difference of those values.]

(i) the price of the Goods, including the original import value of the Goods; plus any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods already imported.

(ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods already imported;

(iii) the price of the Goods, obtained as the difference between (i) and (ii) above;

(iv) any Purchaser's Country sales and other taxes which will be payable on the Goods if the contract is awarded to the Bidder; and

(v) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final

destination (Project Site) specified in the **BDS.**

(d) for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:

(i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

14.7 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the **BDS.** A Bid submitted with an adjustable price quotation shall be treated as non responsive and shall be rejected, pursuant to ITB Clause 30. However, if in accordance with the **BDS,** prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

14.8 If so indicated in ITB Sub-Clause 1.1, bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Unless otherwise indicated in the **BDS,** prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify the applicable price reduction in accordance with ITB Sub-Clause 14.4 provided the bids for all lots are submitted and opened at the same time.

15. Currencies of Bid

15.1 The Bidder shall quote in the currency of the Purchaser's Country the portion of the bid price that corresponds to expenditures incurred in the currency of the Purchaser's country, unless otherwise specified in the **BDS.**

15.2 The Bidder may express the bid price in the currency of any country in accordance with Section V, Eligible countries. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three currencies in addition to the currency of the Purchaser's Country.

16. Documents Establishing the Eligibility of the Bidder

16.1 To establish their eligibility in accordance with ITB Clause 4, Bidders shall complete the Bid Submission Form, included in Section IV, Bidding Forms.

17. Documents Establishing the Eligibility of the Goods and Related Services

17.1 To establish the eligibility of the Goods and Related Services in accordance with ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.

18. Documents Establishing the Conformity of the Goods and Related Services

18.1 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VI, Schedule of Requirements.

18.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Schedule of Requirements.

18.3 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in the BDS** following commencement of the use of the goods by the Purchaser.

18.4 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Schedule of Requirements.

19. Documents Establishing the Qualifications of the Bidder

19.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:

(a) that, if **required in the BDS,** a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's Country;

(b) that, if **required in the BDS,** in case of a Bidder not doing business within the Purchaser's Country, the Bidder is or

will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and

(c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

20. Period of Validity of Bids

20.1 Bids shall remain valid for the period **specified in the BDS** after the bid submission deadline date prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non responsive.

20.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 21, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid, except as provided in ITB Sub-Clause 20.3.

20.3 In the case of fixed price contracts, if the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial bid validity, the Contract price shall be adjusted as specified in the request for extension. Bid evaluation shall be based on the Bid Price without taking into consideration the above correction.

21. Bid Security

21.1 The Bidder shall furnish as part of its bid, a Bid Security or a Bid-Securing Declaration, if required, as **specified in the BDS.**

21.2 The Bid Security shall be in the amount specified in the BDS and denominated in the currency of the Purchaser's Country or a freely convertible currency, and shall:

(a) at the bidder's option, be in the form of either a letter of credit, or a bank guarantee from a banking institution, or a bond issued by a surety;

(b) be issued by a reputable institution selected by the bidder and located in any eligible country. If the institution issuing the bond is located outside the Purchaser's Country, it shall have a correspondent financial institution located in the Purchaser's Country to make it enforceable.

(c) be substantially in accordance with one of the forms of Bid Security included in Section IV, Bidding Forms, or other

form approved by the Purchaser prior to bid submission;

(d) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 21.5 are invoked;

(e) be submitted in its original form; copies will not be accepted;

(f) remain valid for a period of 28 days beyond the validity period of the bids, as extended, if applicable, in accordance with ITB Clause 20.2;

21.3 If a Bid Security or a Bid- Securing Declaration is required in accordance with ITB Sub-Clause 21.1, any bid not accompanied by a substantially responsive Bid Security or Bid Securing Declaration in accordance with ITB Sub-Clause 21.1, shall be rejected by the Purchaser as non-responsive.

21.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB Clause 44.

21.5 The Bid Security may be forfeited or the Bid Securing Declaration executed:

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Submission Form, except as provided in ITB Sub-Clause 20.2; or

(b) if the successful Bidder fails to:

(i) sign the Contract in accordance with ITB Clause 43;

(ii) furnish a Performance Security in accordance with ITB Clause 44.

21.6 The Bid Security or Bid- Securing Declaration of a JV must be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Security or Bid-Securing Declaration shall be in the names of all future partners as named in the letter of intent mentioned in Section IV "Bidding Forms," Bidder Information Form Item 7.

21.7 If a bid security is **not required in the BDS**, and

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid Form, except as provided in ITB 20.2, or

(b) if the successful Bidder fails to: sign the Contract in accordance with ITB 43; or furnish a performance security

in accordance with ITB 44;

the Borrower may, **if provided for in the BDS**, declare the Bidder disqualified to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

22. Format and Signing of Bid

22.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB Clause 11 and clearly mark it "ORIGINAL." In addition, the Bidder shall submit copies of the bid, in the number specified in the **BDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.

22.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder.

22.3 Any interlineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission and Opening of Bids

23. Submission, Sealing and Marking of Bids

23.1 Bidders may always submit their bids by mail or by hand. When so specified in the **BDS,** bidders shall have the option of submitting their bids electronically.

(a) Bidders submitting bids by mail or by hand, shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with ITB Clause 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB sub-Clauses 23.2 and 23.3.

(b) Bidders submitting bids electronically shall follow the electronic bid submission procedures specified in the **BDS.**

23.2 The inner and outer envelopes shall:

(a) Bear the name and address of the Bidder;

(b) be addressed to the Purchaser in accordance with ITB Sub-Clause 24.1;

(c) bear the specific identification of this bidding process indicated in ITB 1.1 and any additional identification marks as **specified in the BDS;** and

(d) bear a warning not to open before the time and date for bid opening, in accordance with ITB Sub-Clause 27.1.

23.3 If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or

premature opening of the bid.

24. Deadline for Submission of Bids

24.1 Bids must be received by the Purchaser at the address and no later than the date and time **specified in the BDS.**

24.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

25. Late Bids

25.1 The Purchaser shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB Clause 24. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.

26. Withdrawal, Substitution, and Modification of Bids

26.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 23, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB Sub-Clause 22.2, (except that no copies of the withdrawal notice are required). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:

(a) submitted in accordance with ITB Clauses 22 and 23 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," or "MODIFICATION;" and

(b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB Clause 24.

26.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 26.1 shall be returned unopened to the Bidders.

26.3 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Submission Form or any extension thereof.

27. Bid Opening

27.1 The Purchaser shall conduct the bid opening in public at the address, date and time **specified in the BDS.** Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB Sub-Clause 23.1, shall be as **specified in the BDS.**

27.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. If the withdrawal envelope

does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding bid will be opened. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at bid opening. Envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only envelopes that are opened and read out at Bid opening shall be considered further.

27.3 All other envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the Bid Prices, including any discounts and alternative offers; the presence of a Bid Security or Bid-Securing Declaration, if required; and any other details as the Purchaser may consider appropriate. Only discounts and alternative offers read out at Bid opening shall be considered for evaluation. No Bid shall be rejected at Bid opening except for late bids, in accordance with ITB Sub-Clause 25.1.

27.4 The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, per lot if applicable, including any discounts, and alternative offers if they were permitted; and the presence or absence of a Bid Security or Bid-Securing Declaration, if one was required. The Bidders' representatives who are present shall be requested to sign the attendance sheet. A copy of the record shall be distributed to all Bidders who submitted bids in time, and posted online when electronic bidding is permitted.

E. Evaluation and Comparison of Bids

28. Confidentiality

28.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the Contract Award.

28.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post-qualification of the bids or contract award decisions may result in the rejection of

its Bid.

28.3 Notwithstanding ITB Sub-Clause 28.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.

29. Clarification of Bids

29.1 To assist in the examination, evaluation, comparison and post-qualification of the bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB Clause 31.

30. Responsiveness of Bids

30.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.

30.2 A substantially responsive Bid is one that conforms to all the terms, conditions, and specifications of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

(a) affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or

(b) limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or

(c) if rectified would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

30.3 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.

31. Nonconformities, Errors, and Omissions

31.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.

31.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

31.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

(a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;

(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.4 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be rejected.

32. Preliminary Examination of Bids

32.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 11 have been provided, and to determine the completeness of each document submitted.

32.2 The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.

(a) Bid Submission Form, in accordance with ITB Sub-Clause 12.1;

(b) Price Schedules, in accordance with ITB Sub-Clause 12.2;

(c) Bid Security or Bid Securing Declaration, in accordance with ITB Clause 21, if applicable.

33. Examination of Terms and Conditions; Technical Evaluation

33.1 The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.

33.2 The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 18, to confirm that all requirements specified in Section VI, Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.

33.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not

substantially responsive in accordance with ITB Clause 30, it shall reject the Bid.

34. Conversion to Single Currency

34.1 For evaluation and comparison purposes, the Purchaser shall convert all bid prices expressed in amounts in various currencies into an amount in a single currency **specified in the BDS,** using the selling exchange rates established by the source and on the date **specified in the BDS.**

35. Domestic Preference

35.1 Domestic preference shall not be a factor in bid evaluation, unless otherwise **specified in the BDS.**

36. Evaluation of Bids

36.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

36.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined in ITB Clause 36. No other criteria or methodology shall be permitted.

36.3 To evaluate a Bid, the Purchaser shall consider the following:

(a) evaluation will be done for Items or Lots, as **specified in the BDS;** and the Bid Price as quoted in accordance with clause 14;

(b) price adjustment for correction of arithmetic errors in accordance with ITB Sub-Clause 31.3;

(c) price adjustment due to discounts offered in accordance with ITB Sub-Clause 14.4;

(d) adjustments due to the application of the evaluation criteria **specified in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria;

(e) adjustments due to the application of a margin of preference, in accordance with ITB Clause 35 if applicable.

36.4 The Purchaser's evaluation of a bid will exclude and not take into account:

(a) In the case of Goods manufactured in the Purchaser's Country, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;

(b) in the case of Goods manufactured outside the Purchaser's Country, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;

(c) any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

36.5 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB Clause 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, unless otherwise specified in Section III, Evaluation and Qualification Criteria. The factors, methodologies and criteria to be used shall be as specified in ITB 36.3 (d).

36.6 If so **specified in the BDS,** these Bidding Documents shall allow Bidders to quote separate prices for one or more lots, and shall allow the Purchaser to award one or multiple lots to more than one Bidder. The methodology of evaluation to determine the lowest-evaluated lot combinations, is specified in Section III, Evaluation and Qualification Criteria.

37. Comparison of Bids

37.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB Clause 36.

38. Postqualification of the Bidder

38.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid is qualified to perform the Contract satisfactorily.

38.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 19.

38.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

39. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids

39.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders.

F. Award of Contract

40. Award Criteria

40.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

41. Purchaser's

41.1 At the time the Contract is awarded, the Purchaser reserves the

Right to Vary Quantities at Time of Award

right to increase or decrease the quantity of Goods and Related Services originally specified in Section VI, Schedule of Requirements, provided this does not exceed the percentages **specified in the BDS,** and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.

42. Notification of Award

42.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.

42.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

42.3 The Purchaser shall publish in UNDB online and in the dgMarket the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful bidders may request in writing to the Purchaser for a debriefing seeking explanations on the grounds on which their bids were not selected. The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests a debriefing.

42.4 Upon the successful Bidder's furnishing of the signed Contract Form and performance security pursuant to ITB Clause 44, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 21.4.

43. Signing of Contract

43.1 Promptly after notification, the Purchaser shall send the successful Bidder the Agreement and the Special Conditions of Contract.

43.2 Within twenty-eight (28) days of receipt of the Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

43.3 Notwithstanding ITB 43.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its bid, always provided, always provided, however, that the Bidder can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contact Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.

44. Performance Security

44.1 Within twenty eight (28) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section IX Contract forms, or another Form acceptable to the Purchaser. The Purchaser shall promptly notify the name of the winning Bidder to each unsuccessful Bidder and discharge the Bid Securities of the unsuccessful bidders pursuant to ITB Sub-Clause 21.4.

44.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or execution of the Bid-Securing Declaration. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

Section II. Bidding Data Sheet (BDS)

Section II. Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General
ITB 1.1	The Purchaser is: **Ministry of Health and Population, Department of Health Services, Logistics Management Division, Pachali, Teku, Kathmandu, Nepal.**
ITB 1.1	The name and identification number of the ICB are: **Procurement of MEDICAL AND NON-MEDICAL EQUIPMENT** **SUPPLY AND INCIDENTAL SERVICES** **IFB Number: LMD-KfW/2012-13/ICB-1**
ITB 2.1	The Recipient of funds is: **Government of Nepal (GoN)**
ITB 2.1	The name of the Project is: **District Health Project, Nepal**
ITB 4.3	This Clause is omitted.
ITB 4.4	This Clause is omitted.
	B. Contents of Bidding Documents
ITB 7.1	For **Clarification of bid purposes** only, the Purchaser's address is: Attention: Director, Logistics Management Division, Department of Health Services, Address: Teku, Kathmandu City: Kathmandu Country: Nepal Telephone: 977-01-4261768 Facsimile number: 977-01-4261413 Electronic mail address: director@dohslmd.gov.np
	C. Preparation of Bids
ITB 10.1	The language of the bid is: **English.**
ITB 11.1 (h)	• Other additional documents required as stated in the Technical Specifications part of the Bid Documents (Section VI).

ITB 13.1	Alternative Bids: **shall not be considered**
ITB 14.2 (a) (Sub Clause)	The Bidder shall indicate on the Price schedule the unit price and total bid price of each item of a lot tendered for separately , failing which such bids will not be taken in to account for evaluation and will not be considered for award, except as provided for under ITB 36.6 and Section III, Evaluation and Award Criteria. In case of discrepancy between the unit price and the total price, the unit price shall prevail.
ITB 14.5	The Incoterms edition is: **Incoterms 2000**
ITB 14.6 (b) (i) and (c) (iii)	Place of Destination: DDU, **Designated Health facilities in Nepal,**
ITB 14.6 (a) (iii);(b)(ii) and (c)(v)	Final destination (Project Site): DDU, **Designated Health facilities in Nepal** as per Section VI, Schedule of Requirements
ITB 14.6 (b) (iii)	Not Applicable.
ITB 14.7	The prices quoted by the Bidder shall not be adjustable.
ITB 15.1	The Bidder is required to quote in the currency of the Purchaser's Country the portion of the bid price that corresponds to expenditures incurred in the currency of the Purchaser's Country. In this bid the currency of the Purchaser's Country is the Nepalese Rupees.
ITB 18.3	Period of time the Goods are expected to be functioning (for the purpose of spare parts): At least 5 years for Major Equipment and for the rest of the items at least 2 Years.
ITB 19.1 (a)	Manufacturer's authorization to the bidder is required for all major items of equipment if the bidder is not manufacturer, as shown in Part VI Schedule of Requirements, Table 2 List of requirements for manufacturer's authorization, manufacturer's financial capacity , warranty period, related services and completion schedule
ITB 19.1 (b)	After sales service is required for: repair and maintenance during warranty period, as shown in Part VI Schedule of Requirements, Table 2 List of requirements for manufacturer's authorization, manufacturer's financial capacity , warranty period, related services and completion schedule.
ITB 20.1	The bid validity period shall be: 120 days (i.e. **21st September 2013**) after the deadline for bid submission (**24th May 2013**).
ITB 21.1	Bid shall include a Bid Security issued by a bank in Nepal in the same format as provided in the template included in Section IV Bidding Forms. In case of a Bid Security issued by a foreign bank, the same shall be counter-guaranteed by a Class A commercial bank in Nepal .

ITB 21.2	The amount of the **Bid Security shall be: at least 2.5%** of the total bid amount. Bid security must be valid twenty-eight (28) days after the end of the bid validity period (i.e **19th October 2013**). Accordingly, a bid with a Bid security that expires before 28 days after the end of bid validity period i.e. 148 days (120 days + 28 days) from the closing of bids shall be treated as non -responsive and rejected.
ITB 22.1	In addition to the original of the bid, the **number of copies is: One**
	D. Submission and Opening of Bids
ITB 23.1	Bidders shall not have the option of submitting their bids electronically.
ITB 23.2 (c)	The inner and outer envelopes shall bear the following additional identification marks: Procurement of Medical and non-medical equipment: **IFB No. LMD/2012-13/ICB-1**
ITB 24.1	For bid submission purposes, the Purchaser's address is: Attention: Director, Logistics Management Division (LMD). Department of Health Services, Ministry of Health and Population, Off Teku Road, Pachali, Teku, City: Kathmandu, Country: Nepal The deadline for the submission of bids is: Date: **24th May 2013,** Time: 1200 Hours (Local Time) **NOTE**: "If the date for bid submission happens to fall on GoN official holiday, the next working day shall be considered as the date for bid submission."
ITB 27.1	The bid opening shall take place at: Logistics Management Division Department of Health Services, MoHP Street Address: off Teku Road, Pachali, Teku Floor/ Room number: First floor, Conference Hall of Procurement Section. City: Kathmandu Country: Nepal Date: **24th May 2013,** Time: 12:30 Hours (Local Time) **NOTE**: "If the date for bid opening happens to fall on GoN official holiday, the next working day shall be considered as the date for bid opening."
ITB 27.1	Electronic bidding not applicable.
	E. Evaluation and Comparison of Bids
ITB 34.1	Bid prices expressed in different currencies shall be converted in: Nepalese Rupees (NRs.). The source of exchange rate shall be: Nepal Rastra Bank, Foreign Currency Exchange Buying Rate. The date for the exchange rate shall be: *28 days prior to the* date of bid opening **i.e. 26th April 2013**).

ITB 35.1	A margin of domestic preference will not apply.
ITB 36.3(a)	Bids will be evaluated lot by lot , except as provided for under ITB 36.6 and Section III, Evaluation and Award Criteria. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items.
ITB 36.3(d)	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: *(a)* Deviation in Delivery schedule: The adjustment per week for delivery delays beyond time specified in the Schedule of Requirement is one percent (0.5%) per week. Delivery delays in excess of 10 weeks beyond time specified in the Schedule of Requirement will not be acceptable and will cause the Bid to be non-responsive. (b) Deviation in payment schedule: Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price and no deviation from the Purchaser's payment schedule will be allowed. Bid deviating from the given payment schedule will be considered non-responsive. (c) the availability in the Purchaser's country of spare parts and after sales service for equipment as shown in Part VI Schedule of Requirements, Table 2 List of requirements for manufacturer's authorization, manufacturer's financial capacity, warranty period, related services and completion schedule: ***If such equipment is included in his bid, a signed, written declaration by the Bidder to this effect must be included as part of the bid.*** . (d) If the bidder quotes separately the cost of setting up facilities for after sales service and inventory of spare parts, the amount will be added to the bid price for evaluation purpose.
ITB 36.6	Only in case for lots 2 or 3 an award for the complete lot is not possible, award will be made on an item by item basis for the lot concerned. In the latter case partial bids, if any, will be considered.
ITB 38.2	For detailed Post Qualification Requirements see Section III Evaluation and Qualification Criteria
	F. Award of Contract
ITB 41.1	The maximum percentage by which quantities may be increased is: 15% The maximum percentage by which quantities may be decreased is: 15%

Section III. Evaluation and Qualification Criteria

Section III. Evaluation and Qualification Criteria

Contents

1. Domestic Preference (ITB 35.1)

2. Evaluation Criteria (ITB 36.3 (d))

3. Multiple Contracts (ITB 36.6)

4. Post-qualification Requirements (ITB 38.2)

1. Domestic Preference (ITB 35.1) (Not Applicable)

2. Evaluation Criteria (ITB 36.3 (d))

The Purchaser's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Clause 14.6, one or more of the following factors as specified in ITB Sub-Clause 36.3(d) and in BDS referring to ITB 36.3(d)**,** using the following criteria and methodologies.

(a) Deviation in Delivery schedule:

The adjustment per week for delivery delays beyond time specified in the Schedule of Requirement is one percent (0.5%) per week. Delivery delays in excess of 10 weeks beyond time specified in the Schedule of Requirement will not be acceptable and will cause the Bid to be non-responsive.

(b) Deviation in payment schedule:

Bidders shall state their bid price for the payment schedule outlined in the SCC. Bids will be evaluated on the basis of this base price and no deviation from the Purchaser's payment schedule will be allowed. Bid deviating from the given payment schedule will be considered non-responsive.

(c) Major replacement components, mandatory spare parts, and services;

If equipment requiring any of these as shown in Part VI Schedule of Requirements, Table 2, List of requirements for manufacturer's authorization, manufacturer's financial capacity , warranty period, related services and completion schedule is offered, a written statement shall be submitted by the bidders , committing the availability in the Purchaser's Country of spare parts and after sales services for the major equipment offered in the bid for a period of five (5) years from the date of delivery and commissioning.

(d) Availability in the Purchaser's Country of spare parts and after sales services for the equipment offered in the bid:

If the bidder quotes separately the cost of setting up facilities for after sales service and inventory of spare parts, the amount will be added to the bid price for evaluation purpose. A bidder currently not represented in the Purchaser's country, for the purpose of after sales service and spare parts, shall provide a separate price covering the costs for establishing the minimum service facilities and parts inventories, as outlined in BDS Sub-Clause 36.3(d), which shall be added to the bid price, for evaluation purposes only. If a bidder, which is currently not represented in the Purchaser's country, omits to quote such a separate price, these prices shall be assumed to have been covered by the bid prices of the offered equipment and instruments.

(e) Projected operating and maintenance costs.

Deleted

(f) Performance and productivity of the equipment.

Deleted

(g) Specific additional criteria

Deleted

3. Multiple Contracts (ITB 36.6)

Only in case for lots 2 or 3 an award for the complete lot is not possible, award will be made on an item by item basis for the lot concerned. In the latter case partial bids, if any, will be considered. At any rate the complete quantity of one item will be awarded to only one bidder.

4. Postqualification Requirements (ITB 38.2) After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 37.1, the Purchaser shall carry out the postqualification of the Bidder in accordance with ITB Clause 38, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications. However, bidder substantially not meeting the following post qualification requirements will not be considered for award for the respective lot of the contract.

(a) Financial Capability

If the bidder is not the manufacturer, its average annual turnover over the past two years must be at least equivalent to the quoted value of offered goods. The bidder shall demonstrate compliance with this requirement through submission of certified copies of the annual audited statement for the past two years.

And

The average annual turnover of the proposed manufacturers of major equipment over the past three years shall not be less than 5 times the value of the offered responsive goods. This requirement does not apply for items as stated in Section VI, Schedule of Requirements, Table 2, List of requirements for manufacturer's authorization, manufacturer's financial capacity , warranty period, related services and completion schedule.The bidder shall demonstrate compliance with this requirement through submission of certified copies of the annual audited statement of the manufacturer of major equipment for the past three years.

If the bidder is the manufacturer, its average annual turnover over the past three years shall not be less than 5 times the value of the offered responsive goods intended for award. The bidder shall demonstrate compliance with this requirement through submission of certified copies of the annual audited statement for the past three years.

The bidder and the manufacturer not meeting the above stated minimum financial capability will be considered non-responsive.

(b) Experience and Technical Capacity:

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement:

i) If the Bidder is not the manufacturer of the offered goods then the manufacturer should have been producing similar major equipment for at least 3 years at the time of bid submission.

ii) The Bidder shall have successfully completed within the past three (3) years at least 1 contract supplying good(s) of similar nature, including warranty and after sales services as may be applicable.

iii) The Bidder shall also commit in writing to make available required spare parts and after sales services for a period of five (5) years from the date of delivery and commissioning for items as stated in Section VI, Schedule of Requirements, Table 2, List of requirements for manufacturer's authorization, manufacturer's financial capacity, warranty period, related services and completion schedule.

v) The bidder and/ or its local agent and/or the local office of the offered equipments' manufacturer(s) shall have adequate maintenance and service centres in Nepal for items for which this is specified as shown in Part VI Schedule of Requirements, 2, List of requirements for manufacturer's authorization, manufacturer's financial capacity , warranty period, related services and completion schedule. If not available, a plan to provide service and maintenance to the offered equipment shall be submitted .

(c) The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the usage requirement as it is intended for and/ or as specified in the technical specifications.

Section IV. Bidding Forms

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Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission*]
ICB No.: *[insert number of bidding process]*

Page _____ of_ _____ pages

1. Bidder's Legal Name *[insert Bidder's legal name]*
2. In case of JV, legal name of each party: *[insert legal name of each party in JV]*
3. Bidder's actual or intended Country of Registration: *[insert actual or intended Country of Registration]*
4. Bidder's Year of Registration: *[insert Bidder's year of registration]*
5. Bidder's Legal Address in Country of Registration: *[insert Bidder's legal address in country of registration]*
6. Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
7. Attached are copies of original documents of: *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation or Registration of firm named in 1, above, in accordance with ITB Sub-Clauses 4.1 and 4.2. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB Sub-Clause 4.1. ☐ In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB Sub-Clause 4.5.

Joint Venture Partner Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below].
Date: *[insert date (as day, month and year) of Bid Submission*]
ICB No.: *[insert number of bidding process]*

Page _____ of_ _____ pages

1. Bidder's Legal Name: *[insert Bidder's legal name]*
2. JV's Party legal name: *[insert JV's Party legal name]*
3. JV's Party Country of Registration: *[insert JV's Party country of registration]*
4. JV's Party Year of Registration: *[insert JV's Part year of registration]*
5. JV's Party Legal Address in Country of Registration: *[insert JV's Party legal address in country of registration]*
6. JV's Party Authorized Representative Information Name: *[insert name of JV's Party authorized representative]* Address: *[insert address of JV's Party authorized representative]* Telephone/Fax numbers: *[insert telephone/fax numbers of JV's Party authorized representative]* Email Address: *[insert email address of JV's Party authorized representative]*
7. Attached are copies of original documents of: *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation or Registration of firm named in 2, above, in accordance with ITB Sub-Clauses 4.1 and 4.2. ☐ In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB Sub-Clause 4.5.

Bid Submission Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*
ICB No.: *[insert number of bidding process]*
Invitation for Bid No.: *[insert No of IFB]*
Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: _____*[insert the number and issuing date of each Addenda];*

(b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services _____ *[insert a brief description of the Goods and Related Services];*

(c) The total price of our Bid, excluding any discounts offered in item (d) below, is: _____*[insert the total bid price in words and figures, indicating the various amounts and the respective currencies];*

(d) The discounts offered and the methodology for their application are:

Discounts. If our bid is accepted, the following discounts shall apply._____ *[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]*

Methodology of Application of the Discounts. The discounts shall be applied using the following method:_____ *[Specify in detail the method that shall be used to apply the discounts];*

(e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 20.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 24.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 44 and GCC Clause 18 for the due performance of the Contract;

(g) We, including any subcontractors or suppliers for any part of the contract, have nationality from eligible countries_____ *[insert the nationality of the Bidder, including that of all parties that comprise the Bidder, if the Bidder is a JV, and the nationality each subcontractor and supplier]*

(h) We have no conflict of interest in accordance with ITB Sub-Clause 4.2;

(i) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared ineligible by the Bank, under the Purchaser's country laws or official regulations, in accordance with ITB Sub-Clause 4.3;

(j) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

(k) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

(l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed:_____ *[insert signature of person whose name and capacity are shown]*
In the capacity of _____*[insert legal capacity of person signing the Bid Submission Form]*

Name:_____ *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of:_____ *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Price Schedule Forms

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

Price Schedule:

(Group C bids, goods to be imported)

Currencies in accordance with ITB Sub-Clause 15

Date:_____
ICB No: _____

Alternative No: _____
Page N° _____ of _____

1	2	3	4	5	6	7	8	9
Lot No	**Description of Goods**	**Country of Origin**	**Delivery Date as defined by Incoterms**	**Quantity and physical unit**	**Unit price DDU *Birgunj, Nepal or Kathmandu I'national Airport, Nepal (To be Specified by the bidder)* in accordance with ITB 14.6(b)(i)**	**Total DDU Price per line item (Col. 5x6)**	**Price per line item for inland transportation and other services required in Nepal to convey the Goods to their final destination (Bardiya DH, Bheri ZH, Dhading DH, Gajuri PHCC, Rajapur PHCC, Sorahawa PHCC and DoHS/MD, Nepal) in NRs.**	**Total Price per Line item (Col. 7+8)**
1	1.1) Autoclave for CSSD, approx. 80l, stand alone							
	1.2) Water treatment for Autoclave CSSD							
2	2.1) Bilirubinmeter							
	2.2) Biochemistry semi auto-analyzer							
	2.3) Colorimeter							
	2.4) DLC-Counter, manual							
	2.5) Micropipete Set 10um - 100um							
	2.6) Serological pipettes (glas), 1,2,5,10ml							
	2.7) Hot Air Oven							

1	2	3	4	5	6	7	8	9
Lot No	**Description of Goods**	**Country of Origin**	**Delivery Date as defined by Incoterms**	**Quantity and physical unit**	**Unit price DDU *Birgunj, Nepal or Kathmandu I'national Airport, Nepal (To be Specified by the bidder)* in accordance with ITB 14.6(b)(i)**	**Total DDU Price per line item (Col. 5x6)**	**Price per line item for inland transportation and other services required in Nepal to convey the Goods to their final destination (Bardiya DH, Bheri ZH, Dhading DH, Gajuri PHCC, Rajapur PHCC, Sorahawa PHCC and DoHS/MD, Nepal) in NRs.**	**Total Price per Line item (Col. 7+8)**
	2.8) Refrigerator, universal w.deep freeze, lockable							
	2.9) Incubator, Laboratory							
	2.10) Spender, desinfection							
3	3.1) Patient bed with side table							
	3.2) Stretcher with castors, lockable							
	3.3) Cuff, children and baby,for Sphygmomanometer handheld							
	3.4) Nebulizer							
	3.5) Oxygen concentrator							
	3.6) Oxygen cylinder, 1.6m³, incl. refilling tool							
	3.7) Pulse oxymeter, handheld, fingertip							
	3.8) Ultrasound-Foetoscope Doppler, handheld							
	3.9) ECG Machine, user-selectable: 3- or 6-channel formats (12 standard leads)							

1	2	3	4	5	6	7	8	9
Lot No	**Description of Goods**	**Country of Origin**	**Delivery Date as defined by Incoterms**	**Quantity and physical unit**	**Unit price DDU *Birgunj, Nepal or Kathmandu I'national Airport, Nepal (To be Specified by the bidder)* in accordance with ITB 14.6(b)(i)**	**Total DDU Price per line item (Col. 5x6)**	**Price per line item for inland transportation and other services required in Nepal to convey the Goods to their final destination (Bardiya DH, Bheri ZH, Dhading DH, Gajuri PHCC, Rajapur PHCC, Sorahawa PHCC and DoHS/MD, Nepal) in NRs.**	**Total Price per Line item (Col. 7+8)**
	3.10) Delivery instrument set							
	3.11) Suction pump vacuum, portable, electric							
	3.12) Suction pump vacuum, portable, foot operated							
	3.13) Post-mortem set, el.							
	3.14) ENT-Set							
	3.15) Dark room accessories							
	3.16) Resuscitation set, in suitcase							
	3.17)) High pressure station							
	3.18) Solar water heating (200 l)							
4	4.1) Ultrasound Scanner, portable							
5	5.1) 100 mA X ray unit with voltage stabiliser							
6	6.1) generator, 3-ph., diesel operated, 40 kVA							
	6.2) generator, single-ph., diesel op., 10 kVA							

1	2	3	4	5	6	7	8	9
Lot No	**Description of Goods**	**Country of Origin**	**Delivery Date as defined by Incoterms**	**Quantity and physical unit**	**Unit price DDU *Birgunj, Nepal or Kathmandu I'national Airport, Nepal (To be Specified by the bidder)* in accordance with ITB 14.6(b)(i)**	**Total DDU Price per line item (Col. 5x6)**	**Price per line item for inland transportation and other services required in Nepal to convey the Goods to their final destination (Bardiya DH, Bheri ZH, Dhading DH, Gajuri PHCC, Rajapur PHCC, Sorahawa PHCC and DoHS/MD, Nepal) in NRs.**	**Total Price per Line item (Col. 7+8)**
7	7.1) Test equipment: Anaesthesia unit calibration							
	7.2) Test equipment: MA meter (X-Ray)							
	7.3) Test equipment: MOhm-meter (Insulation Test)							
	7.4) Test equipment: Oscilloscope							
	7.5) Maintenance Tool Set							
8	8.1) 250 KVA Voltage stabiliser for placement at main transformer for Bheri ZH							
	8.2) 100 KVA Voltage stabiliser for placement at mains for Bardiya and Dhading DH							
							Total Price	

Name of Bidder …… Signature of Bidder …… Date ……

Bid Security (In the form of Bank Guarantee)

To:
The Director,
Logistics Management Division,
Department of Health Services,
Teku, Pachali, Kathmandu

We, the undersigned …… ……..…… …….….. (Guarantor), in order to enable ……..…… …… …… (bidder) to bid for …… ……..…….. (project, object of contract), hereby irrevocably and independently guarantee to pay to you an amount up to a total of ..... waiving all objections and defences.

We shall effect payments under this guarantee on your first written demand, which must be accompanied by your confirmation that you have accepted the above-mentioned bid and that the firm ……. is no longer prepared to abide by this bid.

This guarantee shall expire no later than …….

By this date we must have received any claims for payment by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after payment of the total amount to be claimed hereunder.

This guarantee is governed by the laws of ……

_____

_____

Place, Date Guarantor

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the ***BDS.****]*

Date: *[insert date (as day, month and year) of Bid Submission]*
ICB No.: *[insert number of bidding process]*
Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at [insert full address of Manufacturer's factories], do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Declaration of Undertaking

We underscore the importance of a free, fair and competitive procurement process that precludes abusive practices. In this respect we have neither offered nor granted directly or indirectly any inadmissible advantages to any public servant or other person nor accepted such advantages in connection with our bid, nor will we offer or grant or accept any such incentives or conditions in the present procurement process or, in the event that we are awarded the contract, in the subsequent execution of the contract. We also declare that no conflict of interest exists in the meaning of the kind described in the pertinent Guidelines [5].

We also underscore the importance of adhering to minimum social standards ("Core Labour Standards") in the implementation of the project. We undertake to comply with the Core Labour Standards ratified by the country of Nepal.

We will inform our staff about their respective obligations and about their obligation to fulfil this declaration of undertaking and to obey the laws of the country of Nepal.

We also declare that our company/all members of the consortium has/have not been included in the list of sanctions of the United Nations, nor of the EU, nor of the German Government, nor in any other list of sanctions and affirm that our company/all members of the consortium will immediately inform the client and KfW if this situation should occur at a later stage.

We acknowledge that, in the event that our company (or a member of the consortium) is added to a list of sanctions that is legally binding for the client and/or KfW, the client is entitled to exclude our company/the consortium from the procurement procedure and, if the contract is awarded to our company/ the consortium, to terminate the contract immediately if the statements made in the Declaration of Undertaking were objectively false or the reason for exclusion occurs after the Declaration of Undertaking has been issued.

.....	.....
Place, date	Tenderer

[5] See "Guidelines for the Assignment of Consultants in German Financial Cooperation" and "Guidelines for the Award of Contracts for Supplies and Services in German Financial Cooperation"

Section V. Eligible Countries

Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement

1. In accordance with Para 1.8 of the Guidelines: Procurement under KfW finances firms of a Country or goods manufactured in a Country may be excluded if:

   Para 1.8 (a) (i): as a matter of law or official regulation, the Borrower's Country prohibits commercial relations with that Country, provided that the KfW is satisfied that such exclusion does not preclude effective competition for the supply of the Goods or Works required, or

   Para 1.8 (a) (ii): by an Act of Compliance with a Decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Buyer's Country prohibits any import of goods from that Country or any payments to persons or entities in that Country. For sanctions imposed by the UN Security Council against individual states (see http://www.un.org/News/ossg/sanction.htm)

PART 2 – Supply Requirements

Section VI. Schedule of Requirements

Contents

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1. List of Goods and Delivery Schedule

All goods to be delivered, installed, commissioned and user training conducted at the designated health facilities within 180 days of signing of contract.

Slice/ Lot No	Equipment	Total Q`ty	Bardiya DH	Bheri ZH	Dhading DH	Gajuri PHCC	Rajapur PHCC	Sorahawa PHCC	Department of Health Services, MD, PAM Unit, Kathmandu
			Q`ty	Q`ty	Q`ty	Q`ty	Q`ty	Q`ty	Q`ty
1	1.1) Autoclave for CSSD, approx. 80l, stand alone	3	1	1	1				
	1.2) Water treatment for Autoclave CSSD	3	1	1	1				
2	2.1) Bilirubinmeter	2	1		1				
	2.2) Biochemistry semi auto-analyzer	1	1						
	2.3) Colorimeter	1				1			
	2.4) DLC-Counter, manual	5	1		1	1	1	1	
	2.5) Micropipete Set 10um - 100um	5	1		1	1	1	1	
	2.6) Serological pipettes (glas), 1,2,5,10ml	525	125	125	125	50	50	50	
	2.7) Hot Air Oven	3	0		0	1	1	1	
	2.8) Refrigerator, universal w.deep freeze, lockable	6	1	1	1	1	1	1	
	2.9) Incubator, Laboratory	3	1		0	0	1	1	
	2.10) Spender, desinfection	6	1	1	1	1	1	1	
3	3.1) Patient bed with side table	24	5	5	5	3	3	3	
	3.2) Patient trolley with castors, lockable	5	1	1	0	1	1	1	
	3.3) Cuff, children and baby,for Sphygmomanometer handheld	6	1	1	1	1	1	1	
	3.4) Nebulizer	12	2	2	2	2	2	2	
	3.5) Oxygen concentrator	3				1	1	1	
	3.6) Oxygen cylinder, 1.6m³, incl. refilling tool	6				2	2	2	
	3.7) Pulse oxymeter, handheld, fingertip	2	1	1	-				
	3.8) Ultrasound-Foetoscope Doppler, handheld	3	1	1	1	-	-	-	-

Slice/ Lot No	Equipment	Total Q`ty	Bardiya DH	Bheri ZH	Dhading DH	Gajuri PHCC	Rajapur PHCC	Sorahawa PHCC	Department of Health Services, MD, PAM Unit, Kathmandu
			Q`ty	Q`ty	Q`ty	Q`ty	Q`ty	Q`ty	Q`ty
	3.9) ECG Machine, user-selectable	3				1	1	1	
	3.10) Delivery instrument set	10	2		2	2	2	2	
	3.11) Suction pump vacuum, portable, electric	1				-	1	-	
	3.12) Suction pump vacuum, portable, foot operated	1				1	-	-	
	3.13) Post-mortem set, el.	6	1	1	1	1	1	1	
	3.14) ENT-Set	6	1	1	1	1	1	1	
	3.15) Dark room accessories	3	0	0	0	1	1	1	
	3.16) Resuscitation set, in suitcase	6	1	1	1	1	1	1	
	3.17) High pressure station	1		1					
	3.18) Solar water heating	3		0		1	1	1	
4	4.1) Ultrasound Scanner, portable	3				1	1	1	
5	5.1) 100 mA X ray unit with voltage stabiliser	3	-		-	1	1	1	
6	6.1) generator, 3-ph., diesel operated, 40 kVA	1	1		-				
	6.2) generator, single-ph., diesel op., 10 kVA	3				1	1	1	
7	7.1) Test equipment: Anaesthesia unit calibration	2		1					1
	7.2) Test equipment: MA meter (X-Ray)	2		1					1
	7.3) Test equipment: MOhm-meter (Insulation Test)	2		1					1
	7.4) Test equipment: Oscilloscope	2		1					1
	7.5) Maintenance Tool Set	2		1					1
8	8.1) 250 KVA Voltage stabiliser for placement at main transformer for Bheri ZH	1		1					
	8.2) 100 KVA Voltage stabiliser for placement at mains for Bardiya and Dhading DH	2	1		1				

2. List of requirements for manufacturer's authorization, manufacturer's financial capacity, warranty period, related services and completion schedule

Slice /Lot No	Brief description	Manufacturer's Authorisation required	Manufacturer's financial capacity required?	Warranty period (standard: 1 year from acceptance)	Availability of after sales service and minimum utilisation period (standard: 5 years)	Description of Service			Location where services have to be performed	Final completion date of Services
						On-site installation Required?	User training (use and maintenance)	Preventive and/or corrective maintenance services during warranty period		
1	1.1) Autoclave for CSSD, approx. 80l, stand alone	Yes	Yes	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period
1	1.2) Water treatment for Autoclave CSSD	Yes	Yes	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period
2	2.1) Bilirubinmeter	No	No	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period
2	2.2) Biochemistry semi-automatic analyzer	No	No	2 years	Yes	Yes	Yes	PM + CM	On site	End of the Warranty period
2	2.3) Colorimeter	No	No	1 year	Yes	Yes	Yes	CM	On site	End of the Warranty period
2	2.4) DLC-Counter, manual	No	No	1 year	No	Yes	Yes	CM	Not applicable	After Acceptance
2	2.5) Micropipette Set 10um - 100um	No	No	1 year	No	No	Yes	No	Not applicable	After Acceptance
2	2.6) Serological pipettes, 1,2,5,10ml	No	No	1 year	No	No	Yes	No	Not applicable	After Acceptance
2	2.7) Hot Air Oven	Yes	Yes	1 year	Yes	Yes	Yes	CM	On site	End of the Warranty period

Slice /Lot No	Brief description	Manufacturer's Authorisation required	Manufacturer's financial capacity required?	Warranty period (standard: 1 year from acceptance)	Availability of after sales service and minimum utilisation period (standard: 5 years)	Description of Service			Location where services have to be performed	Final completion date of Services
						On-site installation Required?	User training (use and maintenance)	Preventive and/or corrective maintenance services during warranty period		
2	2.8) Refrigerator, universal with deep freeze, lockable	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
2	2.9) Incubator, Laboratory	Yes	Yes	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period
2	2.10) Spender, desinfection	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
3	3.1) Patient bed with side table	No	No	1 year	No	Yes	No	No	Not applicable	After Acceptance
3	3.2) Patient trolley with castors	No	No	1 year	No	Yes	No	No	Not applicable	After Acceptance
3	3.3) Cuff, children and baby,for Sphygmomanometer handheld	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
3	3.4) Nebulizer	No	No	1 year	Yes	No	Yes	CM	On site	End of the Warranty period
3	3.5) Oxygen concentrator	No	No	1 year	Yes	Yes	Yes	No	On site	End of the Warranty period
3	3.6) Oxygen cylinder, 1.6m³, incl. refilling tool	No	No	1 year	Yes	No	No	No	On site	End of the Warranty period
3	3.7) Pulse oxymeter, handheld, fingertip	No	No	1 year	Yes	Yes	Yes	No	On site	End of the Warranty period

Slice /Lot No	Brief description	Manufacturer's Authorisation required	Manufacturer's financial capacity required?	Warranty period (standard: 1 year from acceptance)	Availability of after sales service and minimum utilisation period (standard: 5 years)	Description of Service			Location where services have to be performed	Final completion date of Services
						On-site installation Required?	User training (use and maintenance)	Preventive and/or corrective maintenance services during warranty period		
3	3.8) Ultrasound-Foetoscope Doppler, handheld	No	No	1 year	Yes	No	Yes	CM	On site	End of the Warranty period
3	3.9) ECG Machine	No	No	2 years	Yes	Yes	Yes	PM + CM	On site	End of the Warranty period
3	3.10) Delivery instrument set	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
3	3.11) Suction pump vacuum, portable, electric	No	No	1 year	Yes	No	Yes	No	On site	After Acceptance
3	3.12) Suction pump vacuum, portable, foot operated	No	No	1 year	Yes	No	No	No	Not applicable	After Acceptance
3	3.13) Post-mortem set	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
3	3.14) ENT-Set	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
3	3.15) Dark room accessories	No	No	1 year	No	No	No	No	Not applicable	After Acceptance
3	3.16) Resuscitation set, in suitcase	No	No	1 year	Yes	No	Yes	No	Not applicable	After Acceptance
3	3.17) High pressure station	No	No	2 years	Yes	Yes	Yes	No	On site	End of the Warranty period
3	3.18) Solar water heating	No	No	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period

Slice /Lot No	Brief description	Manufacturer's Authorisation required	Manufacturer's financial capacity required?	Warranty period (standard: 1 year from acceptance)	Availability of after sales service and minimum utilisation period (standard: 5 years)	Description of Service			Location where services have to be performed	Final completion date of Services
						On-site installation Required?	User training (use and maintenance)	Preventive and/or corrective maintenance services during warranty period		
4	4.1) Ultrasound Scanner, portable	Yes	Yes	2 years	Yes	Yes	Yes	PM+CM	On site	End of the Warranty period
5	5.1) 100 mA X ray unit with voltage stabiliser	Yes	Yes	2 years	Yes	Yes	Yes	PM+CM	On site	End of the Warranty period
6	6.1) generator, 3-ph., diesel operated, 40 kVA	Yes	No	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period
6	6.2) generator, single-ph., diesel op., 10 kVA	No	No	2 years	Yes	Yes	Yes	CM	On site	End of the Warranty period
7	7.1) Test equipment: Anaesthesia unit calibration	No	No	1 year	No	No	Yes	CM	On site	End of the Warranty period
7	7.2) Test equipment: MA meter (X-Ray)	No	No	1 year	No	No	Yes	CM	On site	End of the Warranty period
7	7.3) Test equipment: MOhm-meter (Insulation Test)	No	No	1 year	No	No	Yes	CM	On site	End of the Warranty period
7	7.4) Test equipment: Oscilloscope	No	No	1 year	No	No	Yes	CM	On site	End of the Warranty period
7	7.5) Maintenance Tool Set	No	No	1 year	No	No	Yes	CM	On site	End of the Warranty period

Slice /Lot No	Brief description	Manufacturer's Authorisation required	Manufacturer's financial capacity required?	Warranty period (standard: 1 year from acceptance)	Availability of after sales service and minimum utilisation period (standard: 5 years)	Description of Service			Location where services have to be performed	Final completion date of Services
						On-site installation Required?	User training (use and maintenance)	Preventive and/or corrective maintenance services during warranty period		
8	8.1) 250 KVA Voltage stabiliser for placement at main transformer for Bheri ZH	Yes	No	2 years	Yes	Yes	Yes	PM+CM	On site	End of the Warranty period
8	8.2) 100 KVA Voltage stabiliser for placement at mains for Bardiya and Dhading DH	Yes	No	2 years	Yes	Yes	Yes	PM+CM	On site	End of the Warranty period

3. Technical Specifications

The specification and equipment order list contains 2 sections A, B. These sections are an integral part of the specification and equipment order list and complement each other. The two sections are namely:

A. General points and notes

B. Lot wise specifications under different Lots (altogether 8 lots)
The right hand blank side must be completed by the bidder with the technical specifications of the equipment offered with supplementary documents enclosed.

A. GENERAL POINTS AND NOTES

1. Dimensions

Dimensions have been included in the specifications and are intended for GUIDANCE ONLY to match the type of size required. Where there are particular parameters to observe, minimum and maximum sizes have been quoted.

2. Mains Electrically Powered Items

All mains electrically powered items should be suitable for operation on the electrical system within Nepal 220/230 volts.

110-volt units, which work through transformers, are NOT acceptable**.**

3. Instruction/Operating Manuals

Each set of equipment must be supplied with detailed operating and maintenance manuals and technical information in the English language.

4. Sensitive Nature

All the equipment and instruments are of a sensitive nature so they will only be procured from recognized, medical equipment/instrument manufacturers who have an established history or the manufacturers of whose products meet international quality standards.

5. Quality Assurance and Product Conformity

Manufacturers of all medical devices (equipment and instruments) must have a quality assurance system certified under the following standards:

- ISO 13485:2003 or later, as well as ISO 14971:2007 - risk management system for medical devices (for manufacturing of medical equipment and instruments)

- ISO 9001:2008 (for manufacturing of all other goods).

As may be further specified in the following Technical Specifications per item, medical equipment and instruments proposed and supplied must conform to specific product certification, namely CE mark (certifying compliance with the Medical Devices Directive (MDD)93/42/EEC, with subsequent amendments) or equivalent.

A Certificate of Conformity to the Test Parameters and date of manufacturing shall be available to the Purchaser for all the instruments and equipment.

6. Product Information

All the information provided in the bid should be substantiated by attached product data sheets/technical catalogues and relevant Standards such as International Standards Organisation (ISO), European Norms (EN), Indian Standard Institute (IS), Nepal Standard (NS), British Standards Institute (BS), American National Standards Institute (ANSI), .

7. Standard Accessories

All equipment should be supplied with their standard accessories as normally provided by the manufacturers in addition to those accessories that are specifically mentioned in the specifications. The cost of these accessories must be included in the bid price.

8. Availability of Spare Parts and Consumables

The bidder shall supply equipment with a start-up supply of consumables allowing for testing and commissioning and approximately six months of normal operation.

9. Technical Trial

Technical trials may be conducted for all the instruments and equipment prior to purchase and the supplier is fully responsible to provide all facilities needed to conduct the Technical trial on the same model of equipment quoted.

10. Installation and commissioning

All equipment which is so specified in the bidding documents must be installed and commissioned by the Supplier at the final destination(s), including, any base plates or connecting devices to the floor/foundation, utility connection to the equipment within the location, calibration and commissioning. The Supplier will also provide and install the latest version of complete programme software required for the installation, commissioning and its functioning for the diagnostic use of the equipment. The Supplier will also provide licensed copies of all such software for future reference and use of the Purchaser. Such software is to be Original Equipment Manufacturer (OEM). The Supplier will also be required to make available the updated version(s) of such OEM program software for use in the same equipment.

The Health Facility at final destination shall be responsible to ensure that a suitable location (room) is made available, including required connections up to the location for electricity, water, air, oxygen, nitrous oxide, drainage, etc. as applicable for the particular equipment.

All other equipment shall be delivered by the supplier in fully assembled operational condition.

The specifications per item also specify whether or not installation and commissioning is required.

12. User training

The Supplier shall conduct user training for equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.

The training shall be conducted at the site of the equipment, following installation and commissioning.

The specifications per item also specify whether or not user training is required.

13. Maintenance service during warranty period

For items as specified in the following individual Technical Specifications and 2 List of Related Services and Completion Schedule, preventive and/or corrective maintenance must be provided by the supplier during the period of warranty and included in his bid. The cost of spare parts must be included.

14. Right to Reject

All the information provided should be accurate and sufficient to convince fully the Purchaser that all the offered goods fully meet the technical specifications and output quality. If such complete information is not provided and which leads to doubts about the technical compliance of the item(s), the Purchaser retains the right to reject the corresponding item.

B: SLICE WISE SPECIFICATION:

Technical Specifications Forms

For each item offered, Bidders are to offer standard production models most closely matching the specifications below and provide details of the offer. The offer must be for brand new equipment.

These specifications are for the minimum requirement. Bidders may offer higher specifications but they are to highlight these in the Statement of Compliance column. Units are to be stated using the SI system. For example length in metres (m). Multiples and sub-multiples to be used are: 10^6 mega (M); 10^3 kilo (k); 10^{-3} milli (m) and 10^{-6} micro (μ).

Bidders must enter their offered specifications against each parameter of this Technical Specifications Form (TSF), comment as necessary, and sign and stamp each page. Failure to complete this statement of compliance may result in the offer being rejected. A Bidder who enters texts such as "Yes", "Complied", "Better", "Refer to catalogue", and directly copying the Purchaser's descriptions, leaving any parameter line blank and/or submit any text or content of this nature may result in the offer being rejected.

The Statement of Compliance must be substantiated with authenticated catalogue/data sheet/ manual with the page number of original catalogue datasheet/ manual of the relevant parameters indicated.

1.1) Autoclave for CSSD approx. 80l, stand alone

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
1.1)	**Autoclave for CSSD approx. 80l, stand alone**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Autoclaves are required to sterilize objects under high temperature and pressured steam.			
2	**Operational Requirements**			
2.1	Suitable for hospital dressings, linen, surgical instruments, glassware, culture media and laboratory wares etc.			
3	**System Configuration**			
3.1	Autoclave for CSSD approx. 80l, stand alone			
4	**Technical Specifications**			
4.1	Single door high pressure steam sterilizer with double / triple walled, steam jacket and separate boiler			
4.2	Material of construction: • Sterilizer chamber SS 316 • Door SS 316 • Jacket Stainless Steel • Loading carriage SS 316 • Door Gasket : Silicon or better • Insulation: fibre glass resin bonded wool or better • Insulation cover: SS sheets			
4.3	Operating temperature 121 ^{0}C – 138 ^{0}C pressure 1.1 to 2.2 kg/cm2 of steam pressure			
4.4	Capacity- 80 litres			
4.5	Digital microprocessor based PID temperature controller with stored memory			
4.6	Separate cycle timer and easy to read display pressure gauges.			
4.7	Indicating lights display all functions including heating, low water, timer operation, temperature set point and actual temperature.			
4.8	Spring loaded safety valves and automatic vacuum breaker for jacket.			
4.9	Removable plug screen for chamber drain.			
4.10	SS baffle for even steam distribution in the chamber.			
4.11	Safety lock for door: pressure lock safety device.			
4.12	Low water off.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.13	Earth leakage breaker (ELB)			
4.14	Must include chart recorder for temperature and pressure, increased power rating for rapid heating applications.			
4.15	Electrical heating element to have over-temperature protection/cut out and maximum electrical power should not to exceed 4.5 KW.			
5	**Accessories, spares and consumables**			
5.1	3 dressing drums – (suitable to fit into the autoclave and seamless stainless steel construction)			
5.2	A minimum of two spare lid gaskets			
5.3	Graduated water measuring jug, to enable filling of steriliser with correct quantity of water			
5.4	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets. The power cable must be at least 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

1.2) Water Treatment for Autoclave CSSD

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
1.2)	**Water Treatment for Autoclave CSSD**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Water softener system for autoclave			
2	**Operational Requirements**			
2.1	Water Treatment for Autoclave CSSD			
3	**System Configuration**			
3.1	Water Treatment for Autoclave CSSD			
4	**Technical Specifications**			
4.1	Water softener/ deioniser installation including booster pump for sterilizers.			
4.2	Includes installation with autoclaves and water supply.			
4.3	Set of 2 exchange cartridges.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets. The power cable must be at least 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	The supplier should prove that their design and production facilities are accredited to ISO 9001/EN46001 or ISO 9002/EN46002 or internationally acceptable equivalent			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part numbers and costing.			

2.1) Bilirubin meter

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.1)	**Bilirubin meter**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Bilirubin meters are instruments that are simple to operate and are designed to measure the concentration of bilirubin in the blood.			
2	**Operational Requirements**			
2.1	It should be dedicated bilirubin meters that use spectrophotometric techniques to analyze whole blood, serum, or plasma samples.			
3	**System Configuration**			
3.1	Bilirubin meter with complete accessories			
4	**Technical Specifications**			
4.1	It must be Bench top point of care bilirubin meter.			
4.2	Directly reading photometery determining total Bilirubin in serum / plasma			
4.3	It must have on switch and auto off facility.			
4.4	It must have automatic calibration setting between measurements.			
4.5	Must have dual wavelength measurement: 455nm and 575nm			
4.6	Must measure sample size: 1 capillary tube with serum / plasma.			
4.7	Must have main light source of 5W tungsten lamp.			
4.8	Must have measuring range of 0 to 700 µmol/ or 0 to 40 mg/100 ml			
4.9	It must have accuracy equivalent to laboratory spectrophotometer (approx. ±5%).			
4.10	It must have read out switchable between mg/100 ml of µ mol/l.			
4.11	Must have fast analysis time <5 sec.			
4.12	The unit must have large LED display readable in low light working situations, display cover durable plastic & with integrated printer.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Disposable cuvettes to avoid sample cross contamination • Plain cuvette for check and calibration • Reference solution packages • Box of micro capillary tubes, inner dia			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	1mm, length 7mm, heparinzed, pack of sealing compound for micro capillary tubes. • Spare lamp • Dust cover			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets. The power cable must be at least 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

2.2) Semi-Automated Biochemistry Analyser

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.2)	**Semi-Automated Biochemistry Analyser**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	The Semi-auto Biochemistry Analyzer measures biochemical indexes by analyzing blood and other body fluid, then combines with other clinical information, to help diagnose disease, evaluate organs function, identify disease gene and determine the norm for future therapy.			
2	**Operational Requirements**			
2.1	Semi automated Chemistry Analyser with built in software for the calculation and curve plotting. It should accept all types of curve fits like Log-log, Log-linear, Exponential, point to point.			
2.2	User programmable memory for up to 50 chemistries minimum with programmable by the user.			
3	**System Configuration**			
3.1	Semi automated chemistry Analyser with in built data processor & LCD/LED display, printer and RS 232 serial port for bidirectional communication or USB etc.			
4	**Technical Specifications**			
4.1	Light Source : Quartz Halogen Lamp			
4.2	Wavelength Range: Automatic selection by at least 8 position filter wheel ranging 340 – 770 nm.			
4.3	Photometric Range: 0 to 3.0 Absorbance.			
4.4	Calculation Modes: - Absorbance/concentration - End point with factor or standard. - Enzyme kinetics with factor or standard. - Fixed time with factor or standard. - Differential mode with factor or standard. - Polygonal multi standard (Calibration Curve). - Nonlinear software for Elisa should be there.			
4.5	Kinetics: - Delta determination. - Incubation Time 1 to 999 second. - Interval Time 1 to 999 second - Should be programmable with increment of 1 second for faster reading in kinetic tests.			
4.6	Aspiration system: - Programmable sipping volume from 100 – 1000 - Automatic calibration of sipping volume. - Automatic adjustment of sipping time. - Facility for air purge in between 2 samples to avoid carry over.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.7	Quality Control - At least 2 controls per test.			
4.8	Programme: - Levey jenning's plot (optional) - High/Low flags.			
4.9	Flow Cell- Metal with quartz window, measuring volume of about 25 ul. - Temperature control by peltier element			
4.10	Computer connection: Possibility to take repeat readings of reaction solution aspirated flow cell for kinetics.			
5	**Accessories, spares and consumables**			
5.1	Trial kits for various parameters, multi-calibrators and multicontrols.-01 set			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length.			
7	**Standards and Safety Requirements**			
7.1	Should be FDA or CE approved product			
7.2	Manufacturer should have ISO certification for quality standards.			
7.3	Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450			
7.4	Certified for meeting IEC 60601-1-4 Medical electrical equipment - Part 1-4: General requirements for safety - Collateral Standard: Programmable electrical medical systems			
8	**Installation and Commissioning**			
8.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
9	**User Training**			
9.1	Comprehensive training for lab staff and support services till familiarity with the system.			
10	**Warranty**			
10.1	Comprehensive warranty for 2 years from installation			
11	**Maintenance Service During Warranty Period**			
11.1	During the warranty period supplier must provide regular planned preventive maintenance (PPM) of the equipment i.e. at least thrice in a year.			
11.2	To attend unlimited number of corrective /breakdown maintenance calls with in 24 hours of breakdown reported			
12	**Documentation**			
12.1	User manual and Service manual in English			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
12.2	List of important spares and accessories with their part number and costing.			
12.3	Certificate of calibration and inspection.			
12.4	List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual			

2.3) Colorimeter

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.3)	**Colorimeter**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	General purpose colorimeter use in clinical laboratory.			
2	**Operational Requirements**			
2.1	Colorimeter with LED display			
3	**System Configuration**			
3.1	Colorimeter with LED display			
4	**Technical Specifications**			
4.1	Must have 8 no of filters wave length from 400 nm to 700 nm.			
4.2	Must have a 3 digit LED display calibrated directly in optical density.			
4.3	Detector must be encased spill proof photocell.			
4.4	Must have facilities for concentration, calculation, percentage transmission and optical density.			
4.5	Lamp source: Broad spectrum LED, covering full visible range			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Turret-mounted filters • 10 cuvettes, 2 test tube stand			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs and sockets. The power cable must be at least 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

2.4) DLC-Counter, Manual

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.4)	**DLC-Counter, Manual**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A differential cell counter in which the percentages of blood cell types are calculated as well as the total number of cells.			
2	**Operational Requirements**			
2.1	DLC-Counter, Manual type.			
3	**System Configuration**			
3.1	DLC-Counter, Manual			
4	**Technical Specifications**			
4.1	It must be a differential cell counter.			
4.2	Must provide blood cell counting and simple calculations including percentage.			
4.3	Each unit counts up to 999 and last unit totalize the different cells.			
4.4	The bell automatically sounds at very 100.			
4.5	It should be 6unit-8keys and totalizer.			
4.6	It has a dual knob on both ends to facilitate easy resetting.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

2.5) Micropipette Set

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.5)	**Micropipette Set**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Micropipettes are micro tools constructed from glass or anti corrosive material tubing for microinjection and micromanipulation purposes.			
2	**Operational Requirements**			
2.1	Required in various sizes and compatible with all brands of tips.			
3	**System Configuration**			
3.1	Micropipette Set of sizes 10ul-100ul. (10, 20, 50, 100µl)			
4	**Technical Specifications**			
4.1	Micropipettes required in following sizes: 10ul-100ul (10, 20, 50, 100µl)			
4.2	Suitable for all brands of tips.			
4.3	Adjustable for variable volume.			
4.4	Offer high accuracy and precision			
4.5	With tip ejector mechanism			
4.6	Made of corrosion proof material.			
4.7	Fully autoclaveable at 121 ^{0}C			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

2.6) Serological pipettes

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.6)	**Serological pipettes**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Serological pipette is a laboratory tool used to transport a measured volume of liquid.			
2	**Operational Requirements**			
2.1	Serological pipettes required in various sizes			
3	**System Configuration**			
3.1	Serological pipettes with 1, 2, 5 and 10ml volume.			
4	**Technical Specifications**			
4.1	Set of serological glass pipettes with heavy wall made from borosilicate accurate glass tubing of uniform bore.			
4.2	Set consist of pipettes with 1, 2, 5 and 10ml volume.			
4.3	The jet must be precision formed and ground ends must be bevelled to resist chipping.			
4.4	The pipettes must have graduation for delivery from zero mark to the last graduation mark The graduation marks must be in durable white enamel resistant to normal laboratory reagents and repeated washing.			
4.5	The pipettes must be autoclaveable and if necessary can be flamed for sterilization.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** 1 rubber bulb per 50 pipettes (Rubber Pipette Bulb, 60ml; This rubber bulb features a heavy wall neck and easy grip body. Pipet bulb opening is a standard size to fit any of the glass pipettes)			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature,			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply ready pack.			
12	**Documentation**			
12.1	User (Operating)/instructions manual in English			

2.7) Hot Air Oven

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.7)	**Hot Air Oven**			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country Of Origin:			
1	**Description of Function**			
1.1	Hot Air Oven is required for heating a sample under controlled conditions.			
2	**Operational Requirements**			
2.1	Microprocessor based system with PID-temperature controller with integrated auto diagnostic system with fault indicator.			
3	**System Configuration**			
3.1	Hot Air Oven with complete accessories			
4	**Technical Specifications**			
4.1	External: Stainless Steel Casing :w x h x d: 850 x 600 x 700 mm (All dimensions will have a tolerance of +/- 5 mm).Insulated stainless steel door with locking and rear zinc-plated steel			
4.2	Interior - Easy-to-clean made of stainless steel, with supports on the three sides for three adjustable perforated stainless steel shelves.			
4.3	Forced air circulation by quiet air turbine/Fan to ensure uniform temperature			
4.4	Fitted with load indicator and safety thermostat take over indicator lamp. LCD/LED Indicator			
4.5	Temperature Variation +/- 1 ℃			
4.6	Temperature Range- ambient to 250 ℃			
4.7	Output available for data acquisition.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	must be at least 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	Manufacturer must have ISO certification for quality standards.			
8	**User Training**			
8.1	user training must be provided onsite			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) and Service (Technical / Maintenance) manual in English			

2.8) Refrigerator with freezing compartment Spark Free Type CFC free 160 L

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.8)	**Refrigerator with freezing compartment Spark Free Type CFC free 160 L**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Refrigerator with freezing compartment maintains two distinct temperature zones. The refrigerator zone is for chilling above zero and freezer zone is for sub-zero temperatures.			
2	**Operational Requirements**			
2.1	Refrigerator is required at temperatures +2 ^{0}C to +8 ^{0}C and Freezer to maintain -20 ^{0}C to - 35 ^{0}C.			
2.2	Floor standing model, solid double door with lock and handle supplied with two keys.			
3	**System Configuration**			
3.1	The system consists of: • Refrigerator with freezing compartment CFC free 160 L • Floor standing model • Digital display • Adjustable shelves/drawers • Alarm system • Voltage corrector/stabilizer			
4	**Technical Specifications**			
4.1	Storage Capacity/Volume: Refrigerator: 120 litres; Freezer: 40 litres.			
4.2	Corrosion resistant stainless steel construction.			
4.3	Type: Compression Cycled, CFC-Free Refrigerant (both for refrigeration and insulation) Cooling coil of Copper			
4.4	Compressor starting at 22% below rated voltage (both hot and cold starts).			
4.5	Should have adjustments for uneven bases. The adjustments should be easy to use like rotating a screw on the legs of the base.			
4.6	Spill proof adjustable shelves/drawers.			
4.7	Control panel with digital display.			
4.8	Individual display for temperature inside the freezer and the refrigerator.			
4.9	Individual alarm for Low/High temperature inside freezer and the fridge.			
4.10	Humidity controller in both the compartments.			
4.11	Frost free system.			
4.12	Internal illumination.			
4.13	Door locks alarm, low/high temperature inside freezer and refrigerator.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240VAC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be minimum 3 metres long.			
6.3	Voltage corrector/stabilizer of appropriate ratings.			
7	**Standards and Safety Requirements**			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply preassembled unit, ready to use.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part numbers and costing.			

2.9) Incubator, minimum 30 L capacity

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.9)	**Incubator, minimum 30 L capacity**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Incubator is a closed chamber which heats/chill a sample at a pre-set temperature for long term for applications like culture growth etc.			
2	**Operational Requirements**			
2.3	Microprocessor/Microcontroller/Microcomputer controlled system.			
3	**System Configuration**			
3.1	Incubator, minimum 30L capacity			
4	**Technical Specifications**			
4.1	Natural convection, w/thermostat, adjusted L-shaped Thermometer			
4.2	Temperature adjustable from 20 (room)- 70ºC, Temperature Stability 37 ºC, accuracy in the 30 -40ºC region +/- 0,5ºC. two ventilators			
4.3	Stainless steel interior at least 450x450x450 mm, with 3 shelves,(=0.09m3, 90L in volume.) Combined Line A1 & A4, volume >30L is acceptable			
4.4	Power supply 220-240V, 50-60 Hz, external cable at least 3 meters long.			
4.5	Indicators mains and control.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to be operated normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug type D (3 pins). The power cable must be minimum 3 meters long.			
7	**Standards and Safety Requirements**			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Shall provide user training.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) and Service (Technical/Maintenance) manuals to be supplied in English.			
12.2	List of important spare parts and accessories with their part numbers and costing.			

2.10) Spender Disinfection

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.10)	**Spender Disinfection**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Disinfectant dispenser for scrub-up			
2	**Operational Requirements**			
2.1	Spender Disinfection			
3	**System Configuration**			
3.1	Spender Disinfection			
4	**Technical Specifications**			
4.1	Wall mounted			
4.2	Must use with 500ml refillable bottles			
4.3	Long lever arm control			
4.4	Stainless steel pump			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** 2 refillable bottles 500ml each extra.			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			

3.1.1) Hospital Bed

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.1.1)	**Hospital Bed**			
	Manufacturer			
	Brand			
	Type/Model			
	Country Of Origin			
1	**Description of Function**			
	A hospital bed is a bed specially designed for hospitalized patients in need of patient ease. These beds have special features both for the comfort and well-being of the patient and for the convenience of hospital staff.			
2	**Operational Requirements**			
2.1	The patient bed shall be made of solid steel construction with anti-corrosive and antirust treated baked hard epoxy powder coating			
3	**System Configuration**			
3.1	Hospital Bed epoxy powder coated			
4	**Technical Specifications**			
4.1	Bed base shall be anti-corrosive and antirust treated epoxy powder coated welded steel bar or epoxy powder coated 18G perforated sheet top to improve ventilation.			
4.2	The patient bed shall be fixed height with 2 sections where the backrest section could be elevated by mechanical hand crank located at the foot-end of the bed.			
4.3	Shall have 4 IV rod receptacles and mosquito net pole receptacles at the 4 corners			
4.4	It shall come with one dual hook anti-corrosive and antirust treated epoxy powder coated or 304 grade stainless steel IV rod.			
4.5	Shall have provisions to fix urinary bag on both sides.			
4.6	All 4 legs of the locker shall be capped with heavy duty rubber feet.			
4.7	Bedhead and foot-end panel (head and foot bows) shall be made of either 6 anti-corrosive and antirust treated epoxy powder coated vertical tubular tube of not less than 30mm in diameter or epoxy powder coated steel panel			
4.8	Both bedhead and foot-end panel shall be detachable.			
4.9	The height of the bedhead panel: not less than 1060mm from floor.			
4.10	The height of the foot-end panel: not less than 820mm from floor.			
4.11	Overall approximate dimension: not less than 1980mm length, 910mm width, 600mm height			
4.12	The colour of the paint or coating shall be finalised during contract negotiation.			
5	**System Configuration Accessories, spares**			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	and consumables			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply preassembled unit, ready to use.			
12	**Documentation**			
12.1	Users/Instructions manual shall be provided in English.			

3.1.2) Bedside Cabinet/Locker

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.1.2)	**Bedside Cabinet/Locker**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A bedside locker simplifies the work of the caregiver and it enhances the comfort and autonomy of the patient in terms of accessibility, convenience and storage capacity.			
2	**Operational Requirements**			
2.1	All metal construction (machine pressed CRCA steel sheets) with heavy duty anti-corrosion and anti-rust treated epoxy powder coated finish **(other finishes are NOT acceptable)**. Legs Mild steel tubular construction epoxy powder coated treated.			
3	**System Configuration**			
3.1	Bedside locker			
4	**Technical Specifications**			
4.1	Feet to be capped with heavy duty plastic buffers.			
4.2	Overall approximate size 820 H, 400mm square			
4.3	Fitted with superimposed stainless steel top. Top to have lip or edge or retaining rail to prevent items slipping off, Finish must be smooth.			
4.4	With stainless steel towel rail.			
4.5	Lockable drawer with 2 keys immediately beneath the top, minimum height of drawer 18 cm			
4.6	Below the drawer space open on all four sides – min 20 cm height to the cupboard to allow access from all sides			
4.7	Below the open space one cupboard with metal handle/knob with reversible hinge Cabinet door so that the door direction can be adjusted to open to the right or left depending on where it is to be used			
4.8	The joints must be smooth and neat.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply preassembled unit, ready to use.			
12	**Documentation**			
12.1	Not applicable.			

3.2) Patient Trolley

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.2)	**Patient Trolley**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	A trolley for transportation of a patient in the hospital.			
2	**Operational Requirements**			
2.1	It shall be constructed fully with anti-corrosion and antirust treated epoxy powder coated steel sheet and tube or better.			
3	**System Configuration**			
3.1	The system consists of: • Patient trolley with handles • Patient transfer board • Four swivels castors.			
4	**Technical Specifications**			
4.1	Overall size: approximately 2030 L x 560 W x 820 H mm			
4.2	Welded tubular frame with box type pattern construction.			
4.3	Dished shaped top, push handles to be fitted at both ends. The dished shaped top surface shall be smooth and corrosion- and rust-resistant.			
4.4	Shall be mobile on 4 x 200mm robust swivelling castors with non-marking grey tyres and with at least 2 diagonal castors shall have locking/brake mechanism. All four wheels MUST be fully 360 deg swivels. Fixed direction wheels are NOT acceptable.			
4.5	To be supplied complete with 1 patient transfer board per trolley. Smooth board in either heavy duty mild steel or Aluminium Approx. size 1500 l x 500 w mm. All edges to be rounded/ curved. Surface to be smooth to permit easy sliding of patient onto trolley.			
4.6	The joints must be smooth and neat.			
4.7	Castors must not fall off when the trolley is moved in uneven or rough surface			
4.8	Castors to be of non-rusting materials			
4.9	The castors must not make noise and scratches on the floor while moving and have better grip with ease of movement for effortless load movement.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories, parts required for the proper operation of the above item shall be included in the offer.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply preassembled unit, ready to use.			
12	**Documentation**			
12.1	Not applicable.			

3.3) Cuff, children and baby for Sphygmomanometer handheld

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.3)	**Cuff, children and baby for Sphygmomanometer handheld**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Cuff children and baby suitable for sphygmomanometer handheld			
2	**Operational Requirements**			
2.1	Cuff, children and baby for Sphygmomanometer handheld			
3	**System Configuration**			
3.1	Cuff, children and baby for Sphygmomanometer handheld			
4	**Technical Specifications**			
4.1	Set of Velcro cuffs for children and baby			
4.2	The cuff is double Velcro fastening, enabling it to be adjusted to fit tightly around the arm.			
4.3	The cuff is washable, very strong and reinforced at both ends.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply ready pack.			
12	**Documentation**			
12.1	User (Operating) manual in English			

3.4) Nebulizer

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.4)	**Nebulizer**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Nebulizer is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases			
2	**Operational Requirements**			
2.4	Heavy duty compact Nebulizer is required.			
3.	**System Configuration**			
3.1	Nebulizer lightweight			
4	**Technical Specifications**			
4.1	Compact, lightweight, low noise.			
4.2	Durable long life compressor. Suitable for heavy duty/ institutional (hospital) use, should be able to run uninterruptedly for one hour, Max Press= 2.0-2.5 bars			
4.3	Must produce particle of size 1-5 micron			
4.4	Aluminium cabinet painted with epoxy powder.			
4.5	Piston-type electric aspirator that offers high performance and great durability.			
4.6	Protective thermal cut out relay			
4.7	Air delivery rate app.15 L/min.			
4.8	24 hours continuous work for hospital use.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.			
6	**Operating Environment**			
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power input to be 220-240VAC, 50Hz			
7	**Standards and Safety Requirements**			
7.1	Must be USFDA or CE approved product			
7.2	Manufacturer must have ISO certification for quality standards.			
8	**User Training**			
8.1	User's training to be provided			
9	**Warranty**			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
9.1	Warranty for 1 Year			
10	**Maintenance Service during Warranty Period**			
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation, Inspection and Commissioning**			
11.1	Must supply preassembled unit, ready to use.			
11.2	Inspections to verify the compliance of the offered goods as per specifications will be conducted by the technical team appointed by the purchaser.			
12	**Documentation**			
12.1	User (Operating) and Technical/Maintenance manuals to be supplied in English.			
12.2	Certificate of calibration and inspection.			

3.5) Oxygen Concentrator with Flow Splitter

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.5)	**Oxygen Concentrator**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Device concentrates oxygen from ambient air.			
2	**Operational Requirements**			
2.1	Integrated Oxygen Sensing Device (OSD) measures concentration at flow meter entrance.			
3	**System Configuration**			
3.1	Oxygen Concentrator set complete with Flow Splitter.			
4	**Technical Specifications**			
I	**Oxygen Concentrator**			
4.1	Output flow: max 5 LPM (Litre per Minute)			
4.2	Flow meter range: 1 to 5 LPM			
4.3	Output pressure: 60 kPa.			
4.4	Oxygen concentration: 95% ±3% at 1-3 LPM, 92% ±3% at 4 LPM, 90% ±3% at 5LPM.			
4.5	Time to reach 95% the specified performance: 5 minutes.			
4.6	Four-step filtering (coarse, pre, inlet and bacterial) of air-intake.			
4.7	All filters replaceable, coarse filter washable/reusable.			
4.8	Continuous monitoring, with visual and audible alert on: • Low and high output pressure • Low oxygen concentration • Oxygen monitor: amber light on the front illuminates when oxygen concentrator is below 85%. If concentration remains below 85% for more than 15 minutes, an audible alarm sounds. • Power failure • Battery test			
4.9	Temperature operating range: 20 to 60 ^{O}C.			
4.10	Sound level produced: 40 to 50 dB(A)			
4.11	Power requirements: 220-240 V, 50			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Hz Power consumption, approx.: 500 W			
II	**Flow Splitter for Oxygen Concentrator**			
4.12	Five way split of oxygen flow provided by an oxygen concentrator.			
4.13	Each flow can be adjusted individually via its flow meter, range: 0.125 to 2 LPM (Litre per minute).			
4.14	The output nozzle can either be fit with tubing or left blank.			
4.15	Input pressure: 48 to 345 kPa.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • 2 x Adult cannulae, with 2 m tubing. • 4 x Infant cannulae, with 2 m tubing. • 4 x Paediatric cannulae, with 2 m tubing. • 3 x Connector for above. • 4 x Humidifiers. • 4 x 50' tubing. • 4 x Adapter kit. • 1 x Box of 6 coarse filters (spare) • 3 x Pre-filters (spare) • 3 x Inlet-filters (spare) • 3 x Bacterial-filters (spare) • Flow splitter, for oxygen concentrator			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240VAC, 50Hz			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	fitted with appropriate plug. The power cable must be minimum 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The complete unit must be CE marked/USFDA approved/TUV/UL certified.			
7.2	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007			
8	**User Training**			
8.1	Must provide user training.			
9	**Warranty**			
9.1	Warranty for 1year.			
10	**Maintenance Service During Warranty Period**			
10.1	Not applicable			
11	**Installation and Commissioning**			
11.1	The supplier must accomplish proper installation and commissioning on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			

3.6) Oxygen cylinder, 1.6m^3 incl. refilling tool

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.6)	**Oxygen cylinder, 1.6m3 incl. refilling tool**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Oxygen cylinder for medical use.			
2	**Operational Requirements**			
2.1	Oxygen cylinder steel, 1.6m3 incl. refilling tool			
3	**System Configuration**			
3.1	Oxygen cylinder steel, 1.6m3 incl. refilling tool			
4	**Technical Specifications**			
4.1	Oxygen cylinder, steel, with "Bull nose"-valve			
4.2	Filling pressure: 137bar			
4.3	Nominal gas content 1360 Litres			
4.4	Shall have suitable pressure reducer			
4.5	Must include the following item: • Oxygen refilling tool with "Bull nose"-valves • to refill smaller Oxygen cylinders, • Material: brass alloy • Cap nuts on both sides			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	Test Certificates from IOL (Indian Oxygen			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Ltd.), BOC (British Oxygen Company) or other national/international repute institutions.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply ready pack.			
12	**Documentation**			
12.1	User (Operating) manual in English			

3.7) Pulse Oxymeter

S No.	Purchaser' Specifications	Bidder's Offer/ Statement of Compliance	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.7)	**Pulse Oxymeter**			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	**Description of Functions**			
1.1	A portable pulse Oxymeter to measure heart rate and SpO2			
2	**Operational Requirements**			
2.1	It should operate from internal rechargeable battery with recharging function from the AC main.			
3	**System Configurations**			
3.1	Pulse Oxymeter, 1 unit			
4	**Technical Specifications**			
4.1	Shall be a portable model.			
4.2	Shall have an LCD or LED display			
4.3	Shall have a bright numeric display for easy to read parameter and menu keys			
4.4	It must be suitable to operate in the presence of potentially flammable anaesthetic gases, and it shall not cause fire or explosion during operations.			
4.5	It must be able to operate within specification at 10 to 45 degree C.			
4.6	Shall provide O2 saturation % level.			
4.7	Shall provide pulse rate/beats per minute.			
4.8	Standard range shall be provided for SPO2: 0% to 100%			
4.9	Accuracy: +/- 3% from 70-100% SpO2 range			
4.10	Pulse rate range : approximately 30 to 250 bpm with an accuracy better than +/- 5bpm			
4.11	Audio-visual alarms for high/low SpO2 & pulse rate, sensor off, sensor failure, low battery, with alarms override.			
4.12	The unit must be capable of storing and printing patient data.			
5	**Accessories, Spare Parts and Consumables**			

S No.	Purchaser' Specifications	Bidder's Offer/ Statement of Compliance	Deviation if any	Page no. of catalogue/ datasheet/ manual
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Forms.			
5.2	All standard Maintenance tools and cleaning /lubrication materials where applicable shall be included. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Forms..			
5.3	SpO2 reusable finger sensors for adult and child, 1 each			
5.4	SpO2 reusable sensor for infant, 1pc.			
5.5	SpO2 reusable ear sensor, adult size, 1 pc			
6	**Operating Environment**			
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc. Bidder MUST declare if the unit offered could comply with this requirement.			
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.			
7	**Standards & Safety Requirements**			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC:2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training:**			
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.			
9	**Warranty**			

S No.	Purchaser' Specifications	Bidder's Offer/ Statement of Compliance	Deviation if any	Page no. of catalogue/ datasheet/ manual
9.1	The warranty period for this item shall be 12 months after acceptance of the Goods			
10	**Maintenance Service During Warranty Period**			
10.1	Preventive and corrective maintenance services during warranty period shall NOT be included.			
11	**Installation and Commissioning**			
11.1	It shall be installed and commissioned by the Supplier at the final destination(s),			
12	**Documentation**			
12.1	It must be supplied with detailed operating and maintenance manuals and technical information in the English language			

3.8) Ultrasound Doppler Foetal Heart Detector

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.8)	**Ultrasound Doppler Foetal Heart Detector**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.2	Doppler foetal heart detector is a hand-held ultrasound transducer used to detect the heartbeat of a foetus for prenatal care.			
2	**Operational Requirements**			
2.5	Light weight, handheld, easy to operate and carry (pocket size).			
4.	**System Configuration**			
3.1	Doppler, foetal heart detector, with accessories.			
4	**Technical Specifications**			
4.1	Doppler based foetal heart rate detector with amplifier loudspeaker.			
4.2	Transducer frequency, approx.: 2MHz			
4.3	Transducer probe with fixed wire connection to the main unit, length approximately 35cm.			
4.4	Detector diameter approximately 20mm.			
4.5	Self-test is performed each time the device is switched on.			
4.6	Large LCD shows foetal heart rate (FHR) in beats per minute (bpm), pulse indicator, sound volume level.			
4.7	Display reports system status, including low battery and malfunctions, with audio-visual alert.			
4.8	Built-in loudspeaker with volume adjustment.			
4.9	Advanced noise suppression system assures quality diagnostic sound.			
4.10	Operates on two 1.5V AA / LR6 batteries Autonomy, approximately 1000 one-minute examinations.			
4.11	Power consumption, approximately: 0.3W (in standby mode).			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • 2 x Tubes of ultrasound gel, approximately 350ml • 2 x Set of 2 batteries 1.5V AA / LR6 (separately packed) • 1 x Soft carry bag easy to clean			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
6	**Operating Environment**			
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.3	Must be USFDA or CE approved product			
7.4	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007.			
8	**User Training**			
8.1	User training shall be provided			
9	**Warranty**			
9.1	Warranty for 1 Year			
10	**Maintenance Service during Warranty Period**			
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Must supply preassembled unit ready to use.			
12	**Documentation**			
12.1	User (Operating) and Technical/Maintenance manuals to be supplied in English.			
12.2	List of important spare parts and accessories with their part numbers and costing.			

3.9) Portable Digital ECG Machine

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.9)	**Portable Digital ECG Machine**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	ECG Machine is primary equipment to record ECG Signal in various configurations.			
2	**Operational Requirements**			
2.1	Portable digital ECG machine should be able to acquire all 12 Leads simultaneously.			
3	**System Configuration**			
3.1	Portable digital ECG machine with accessories			
4	**Technical Specifications**			
4.1	Simultaneous recording of 12 standard leads: aVR, aVL, aVF, I, II, III and V1-6 pre-cordials.			
4.2	Internal memory for data storage.			
4.3	Splash-resistant alphanumeric keyboard with function keys.			
4.4	With zeroing reset, auto-base-line correction (0.5Hz) and 1mV test/calibration signal.			
4.5	Filter setting for line-frequency (50 or 60Hz) and tremor.			
4.6	Continuous check on the quality of electrodes connection, audio visual alert on loss of signal			
4.7	Appropriately protected for operation during defibrillation.			
4.8	Alphanumeric LCD display, approximately: 10 x 14cm. Display shows ECG-curves, heart rate, patient name and ID, time, speed and filter setting.			
4.9	Front panel provides indication of system and battery status, electrode connection and paper.			
4.10	Built-in high-resolution 300 dpi thermal printer, width 210mm, automatic and manual print-out mode.			
4.11	Print-out on folded thermo-reactive paper, format A4.			
4.12	Number of channels printed is user selectable: 3, 6 or 12.			
4.13	Combination of channels printed is standard and user selectable and with copy function.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.14	Paper speed, user adjustable: 5, 25 and 50mm/sec.			
4.15	Sensitivity, automatic or user selectable: 5, 10 and 20mm/mV.			
4.16	Data interface: RS232 or equivalent Self-test is performed each time the device is switched on.			
4.17	Transformer, charger and rechargeable battery integrated in device.			
4.18	Autonomy, approximately 50 readings.			
4.19	Power requirements: 220-240V / 50Hz and internal re-chargeable battery Power consumption, approximately: 200W			
5	**Accessories, spares and consumables**			
5.1	Accessories: • 1 x Patient cable • 6 x Reusable chest electrodes, suction ball-type • 4 x Extremity clamp electrodes, reusable • 1 x Box of A4 recording paper, 1000 sheets • 2 x Bottles of electrode gel, approximately 350ml • 1 x Spare rechargeable battery pack • 1 x Set of spare fuses • 1 x Plastic protective dustcover			
5.2	All standard accessories/consumables/parts required for the proper operation of the above equipment shall be included in the offer.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220–240V AC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be at least 3 metre in length.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards .Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.2	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007.			
7.3	Equipment safety standard should follow IEC 60601, document evidence shall be submitted for evaluation			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	**Preventive & Corrective Maintenance:** During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

3.10) Delivery Instrument Set

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.10)	Delivery Instrument Set			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	The surgical instrument packs required by FHD are modifications of packs described in: 'Obstetrics and Contraceptive Surgery at the District Hospital – A Practical Guide' Maternal and Safe Motherhood Programme Division of Family Health, WHO/MCH/MSM/92.8 and 'Mother-Baby Package: Implementing Safe Motherhood in Developing Countries', Maternal and Safe Motherhood Programme Division of Family Health, WHO/FHE/MSM/94.11.			
2	Operational Requirements			
2.1	All Surgical Instruments should be made of highest quality materials e.g. stainless steel (S/S) for metal devices. Verification of this will be required from manufacturers/suppliers for products offered; this can be done by submitting official certification that their design and production facilities are accredited to relevant quality assurance (QA) standards such as EN ISO 9001 and 9002, EN 46001 and EN 46002 and /or Annex II of the EU Medical Products Directive 93/42/EEC, which enables manufacturers to meet the conditions required for use of CE mark.			
2.2	The material shall be fret free. The material should be totally resistant to corrosion and pitting.			
2.3	Each pack must be packaged in a hospital grade cotton wrapper (autoclaveable) as a complete pack and the wrapped packs (pack 1, 2, 4, 5, 8, 9, 10, 11, 12, 13, 14) must be packaged in a labelled clear plastic box. The remaining packs shall be in the cotton wrapper only. Bulk loose instrument supply is NOT acceptable. Each of the individual content of the packs must be in a clear plastic wrapper labelled on the outside for easy identification of the individual instruments.			
2.4	Manufacturer's name and catalogue number engraved on the instrument. Original manufacturer catalogue with all the instruments is mandatory.			
2.5	Instruments must be rustproof, non-glaring, lightweight and balanced.			
2.6	Instrument surfaces must NOT be stamped, indented or scratched. Anodised labelling is permissible. It is preferred if the suppliers labelled FHD name in anodised form of labelling.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.7	Particular attention must be paid to the quality of box joints to ensure that they are smooth and interlock well, and to teeth and grips to ensure that they meet and interlock accurately. Finger rings must be of proper size and shape for maximum utility and comfort. The inside of finger rings must be well rounded and free of sharp edges, rough areas and grinding marks, cracks, overlaps, burrs.			
2.8	Jaw serration must be well cut and defined and must mesh properly when the jaws are fully closed. The edges of the serration must be well chamfered and must not contain burrs or sharp edges. Teeth must be sharp (unless otherwise specified), of proper size and shape, free of rough edges or burrs, and must mesh with sufficient accuracy to ensure proper performance for the use intended.			
2.9	Ratchet and ratchet catches must be properly aligned and undercut for safe locking. Ratchets must be of such design as to ensure easy and positive engagement and proper disengagement. Ratchets and ratchet catches must be free of burrs and sharp edges. Ratchets and openings must be soft and smooth.			
2.10	Locks, forceps and similar instruments must be of the box lock type or lap joint type. All type of locks must be accurately fitted, without stiffness and without crevices, burrs or sharp edges anywhere in the construction. Forceps must have proper control of the tip to minimise tissue damage			
2.11	Screws of screw lock scissors and other instruments must be the concentrically shouldered type, countersunk, flush with, or slightly below the surface or rounded, smooth and flush at the periphery, but not riveted. The screws must retain their position after setting without binding or loosening during use.			
2.12	Scissors ; The ROCKWELL hardness of the finished instruments must be within the range from 50 HRC to 58 HRC. Opposite blades must not vary in hardness by more than 4 units on the			
	ROCKWELL C hardness scale. Scissors must have joints, which move smoothly and must be neither too loose nor too tight: it must be possible to close and reopen the instrument easily with two fingers. The cutting ability of the instrument must be tested. The instrument must cut clearly without tearing. The finish and all edges and surfaces must be uniform and free from burrs, sharp edges (except where required), pores, crevices, gin marks, rough areas, cracks and overlaps.			
3	System Configuration			
3.1	Delivery Pack consists of different kinds of forceps, scissors and SS Bowl.			
4	Technical Specifications			

S.N.	Purchaser' Specifications	Bidder's Offer		Deviation if any	Page no. of catalogue/ datasheet/ manual
4.1	Detail list of Instruments under different packs NB: All sizes indicating length may vary +/- 3mm, other sizes +/- 2mm	Quantity Per Pack			
4.2	Delivery Pack				
	i- Artery Forceps (Haemostatic, Rankin-Crile or Rochester-Pean) 16cm	2			
	ii- Cord Cutting Scissors (Umbilical; Blunt end) 16 cm	1			
	iii- Sponge Holding Forceps (Forester; Straight; serrated) 20cm	1			
	iv- Bowl S. S. (Small) 600 – 750 ml	1			
4.3	The instruments must be supplied free of residual scale, acid, grease and grinding and polishing materials and workmanship must be first class throughout. Instruments must be free of defects that would detract from their appearance or impair serviceability, proper functioning and intended use.				
4.4	Bidder MUST attach product catalogues with photos for all instruments as mentioned. These catalogues/photos MUST clearly and correctly mark with non-erasable making pen their respective parameter line number (shown on the left column) and instrument name.				
5	Accessories, spares and consumables				
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.				
6	Operating Environment				
6.1	The instrument offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.				
7	Standards and Safety Requirements				
7.1	A Certificate of Conformity to the Test Parameters and a Certificate of Origin indicating the country of origin and date of manufacture shall be available to the Buyer for all the instruments and equipment.				
7.2	The instruments shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.				
8	User Training				
8.1	Not applicable.				
9	Warranty				
9.1	Warranty for 1 year.				
10	Maintenance Service During Warranty Period				
10.1	Standard warranty conditions are applicable.				
11	Installation and Commissioning				
11.1	Must supply complete unit, ready to use.				
12	Documentation				
12.1	Manual(s): User's/Instructions manual shall be provided in English.				

3.11) Suction Pump 2 Jar

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.11)	Suction Pump 2 Jar			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin:			
1	Description of Function			
1.1	To extract fluid from the body during surgery or emergency treatment			
2	Operational Requirements			
2.1	An electric double jars suction pump for surgical use.			
3	System Configuration			
3.1	Suction machine Two bottles			
4	Technical Specifications			
4.1	It shall be mounted on four robust, fully 360 degree swivelling, antistatic, non-marking grey tyres castors, minimum size 75 mm with at least 2 diagonal brakes.			
4.2	Come with suction controller and vacuum gauge / indicator.			
4.3	The pump shall be oil free vacuum pump where the pumped liquid shall be sealed off from the pump.			
4.4	Come with overflow control valves. Bidder shall provide technical design and details of the pump with this TSF			
4.5	Vacuum rate shall be from 0 to not less than 640 mmHg (0.85 bars).			
4.6	Air flow rate shall be at least 30 to 35 l/min.			
4.7	The pump shall come fitted with twin unbreakable, transparent, autoclaveable polycarbonate suction bottles minimum 2 litre each.			
4.8	The bottles shall be incorporated with an automatic suction cut-off mechanism when they become full.			
4.9	The suction bottles shall come with overflow lid.			
4.10	Noise level: not more than 55 dBA.			
4.11	Air discharge from pump shall be filtered by a 0.3 micron bacterial filter.			
5	Accessories, spares and consumables			
5.1	Accessories: • Electrical cable minimum 3 metre length: 1 no. • Clear suction tubing, 2x5 metre length • Bacterial filter - 0.3 micron,10 pcs • Spare unbreakable, transparent, autoclaveable polycarbonate suction bottles 2 litre, 1pc			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• Complete connection tubings: 1 set. • Hand switch & foot switch with cables for operating easily: 1pc each			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	Operating Environment			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug type D (3 pins). The power cable must be at least 3 metres in length.			
7	Standards and Safety Requirements			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	Shall meet IEC-60601-1-2 General Requirements of Safety for equipment.			
8	User Training			
8.1	Supply shall include user training.			
9	Warranty			
9.1	Warranty for 1year.			
10	Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
11	Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
12	Documentation			
12.1	User (Operating) and Service (Technical/Maintenance) manuals to be supplied in English.			
12.2	List of important spare parts and accessories with their part numbers and costing			

3.12) Foot Operated Suction pump

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.12)	Foot Operated Suction pump			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Foot Suction pump , to extract fluid from the body during surgery or emergency treatment.			
2	Operational Requirements			
2.1	Foot operated unit, frame work has to be made of robust moulded engineering plastic or powder coated non-ferrous metal with high quality rubber parts and accessories; stainless steel spring-loaded to bring pedal back to 'up' position automatically after each down stroke.			
3	System Configuration			
3.1	Foot suction with two bottles Suction tube			
4	Technical Specifications			
4.1	Unit has to be firmly mounted on a robust board.			
4.2	Unit is able to generate instant vacuum of a minimum of 600 mm Hg with stroke volume of 250ml (0.75 BAR), and a minimum 'open tube' flow rate of 1 litre per minute.			
4.3	Unit must be fitted with an unbreakable, transparent, autoclaveable polycarbonate bottle of 2 litres			
4.4	Unit bottle is to incorporate an automatic suction cut-off mechanism when it becomes full.			
5	Accessories, spares and consumables			
5.1	• Supplied with a spare of 2 x 5 metres of clear suction tube • Supplied with 0.3 micron bacterial filter between jar and pump of 10pcs.			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	Operating Environment			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	Standards and Safety Requirements			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8	User Training			
8.1	Not applicable.			
9	Warranty			
9.1	Warranty for 1year.			
10	Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
11	Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
12	Documentation			
12.1	Users / Technical manual in English			

3.13) Post Mortem Set

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.13)	**Post Mortem Set**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Instrument set required for post mortem			
2	**Operational Requirements**			
2.1	The post mortem set should be made of highest quality materials e.g. stainless steel (S/S) for metal devices. The surgical instruments must be CE marked / USFDA approved. The bidder must submit quality assurance (QA) certificates.			
2.2	Instruments must be made from surgical quality, preferably non-magnetic stainless steel and should be matt surface finish. Quality should comply with EN 46002 and ISO 9002 and/or their latest amendments.			
2.3	Each pack must be packaged in a hospital grade cotton wrapper (autoclaveable) as a complete pack. Bulk loose instrument supply is NOT acceptable. Each of the individual instruments in a set must be packed in a labelled clear plastic wrapper for easy identification. All individually packed instruments in a set shall then be packed together in a larger clear plastic wrapper labelled with the name of the set for easy identification.			
2.4	Instrument surfaces must NOT be stamped, indented or scratched. It is preferred if the suppliers labelled GoN name in anodised form of labelling. It shall carry clear anodised labelling/marking of manufacturer's name/brand and the part number/ model number of the instrument on the surface of each instrument.			
2.5	Particular attention must be paid to the quality of box joints to ensure that they are smooth and interlock accurately, and to teeth and grips to ensure that they meet and interlock well. Finger rings must be of proper size and shape for maximum utility and comfort. The inside of finger rings must be well rounded and free of sharp edges, rough areas and grinding marks, cracks, overlaps, burrs.			
2.6	Jaw serration must be well cut and defined and must mesh accurately when the jaws are fully closed. The edges of the serrations must be well chamfered and must not contain burrs or sharp edges. Teeth must be sharp (unless otherwise specified), of proper size and shape, free of rough edges or burrs, and must mesh with sufficient accuracy to ensure proper performance for the use intended.			
2.7	Ratchet and ratchet catches must be properly aligned and undercut for safe locking. Ratchets must be of such design as to ensure easy and positive engagement and proper disengagement. Ratchets and ratchet catches must be free of burrs and sharp edges.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2.8	Locks, forceps and similar instruments must be of the box lock type or lap joint type. All type of locks must be accurately fitted, without stiffness and without crevices, burrs or sharp edges anywhere in the construction.			
2.9	Screws of screw lock scissors and other instruments must be the concentrically shouldered type, countersunk, flush with, or slightly below the surface or rounded, smooth and flush at the periphery, but not riveted. The screw must retain their position after setting without binding or loosening during use.			
	Scissors:			
2.10	The ROCKWELL hardness of the finished instruments must be within the range from 50 HRC to 58 HRC. Opposite blades must not vary in hardness by more than 4 units on the ROCKWELL C hardness scale.			
2.11	Scissors must have joints, which move smoothly and must be neither too loose nor too tight: it must be possible to close and reopen the instrument easily with two fingers.			
2.12	The cutting ability of the instrument must be tested. The instrument must cut clearly without tearing.			
2.13	The finish and all edges and surfaces must be uniform and free of burrs, sharp edges (except where required), pores, crevices, gins marks, rough areas, cracks and overlaps.			
3	**System Configuration**			
3.1	Post Mortem Set			
4	**Technical Specifications**			
4.1	**The instruments required are listed below,** bidder MUST provide full description of all instruments (description includes: full name, type, shape, design, full length, volume and etc.) required below for the evaluation.			
4.2	**Instruments Required:** **NB: All sizes indicating length may vary +/- 3mm, other sizes +/- 2mm** • **Surgical scissors straight size 6" 1 pc** • **Surgical scissors straight size 9" 1 pc** • **Surgical scissors straight size 12" 1 pc** • **Ribs cutting scissors size 9" 1 pc** • **Ribs cutting scissors size 12" 1pc** • **Post-mortem electrical saw for skull 1 pc** • **Bone cutting saw 1pc** • **Surgical knives size 4" 1 pc** • **Surgical knives size 6" 1 pc** • **Surgical knives size 9" 1 pc** • **Anatomy knife 1 pc** • **Osteotome 1 pc.** • **Scalpel handle with blades (surgical) 1pc** • **Tissue forceps with teeth: one set**			
4.3	All instruments must be supplied free of residual scale, acid, grease and grinding and polishing materials and workmanship must be first class throughout. Instruments must be free of defects, which detract from their appearance or impair serviceability, proper functioning			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	and intended use.			
4.4	Bidder MUST attach product catalogues with photos for all instruments as mentioned. These catalogues/photos MUST clearly and correctly mark with non-erasable making pen their respective parameter line number (shown on the left column) and instrument name.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The instrument offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The instruments shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply complete unit, ready to use.			
12	**Documentation**			
12.1	Users/Instructions manual shall be provided in English.			

3.14) ENT Set

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.14)	**ENT Set**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Instrument set for dental examination, dental surgery and dental treatment			
2	**Operational Requirements**			
2.1	The ENT Instruments must be made of highest quality materials e.g. stainless steel (S/S) for metal devices. The surgical instruments must be CE marked / USFDA approved. The bidder must submit quality assurance (QA) certificates.			
2.2	Instruments must be made from surgical quality, preferably non-magnetic stainless steel and should be matt surface finish. Quality should comply with EN 46002 and ISO 9002 and / or their latest amendments.			
2.3	Each pack must be packaged in a hospital grade cotton wrapper (autoclave-able) as a complete pack. Bulk loose instrument supply is NOT acceptable. Each of the individual instruments of a set must be packed in a labelled clear plastic wrapper for easy identification. All individually packed instruments of a set shall then be packed together in a larger clear plastic wrapper labelled with the name of the set for easy identification.			
2.4	Instrument surfaces must NOT be stamped, indented or scratched. It is preferred if the suppliers labelled GoN name in anodised form of labelling. It shall carry clear anodised labelling/ marking of manufacturer's name/ brand and the part number/ model number of instruments on the surface of each piece of instruments.			
2.5	Particular attention must be paid to the quality of box joints to ensure that they are smooth and interlock well, and to teeth and grips to ensure that they meet and interlock well. Finger rings must be of proper size and shape for maximum utility and comfort. The inside of finger			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	rings must be well rounded and free of sharp edges, rough areas and grinding marks, cracks, overlaps, burrs.			
2.6	Jaw serration must be well cut and defined and must mesh properly when the jaws are fully closed. The edges of the serration must be well chamfered and must not contain burrs and sharp edges. Teeth must be sharp (unless otherwise specified), of proper size and shape, free of rough edges or burrs, and must mesh with sufficient accuracy to ensure proper performance for the use intended.			
2.7	Ratchet and ratchet catches must be properly aligned and undercut for safe locking. Ratchets must be of such design as to ensure easy and positive engagement and proper disengagement. Ratchets and ratchet catches must be free of burrs and sharp edges.			
2.8	Locks, forceps and similar instruments must be of the box lock type or lap joint type. All type of locks must be accurately fitted, without stiffness and without crevices, burrs or sharp edges anywhere in the construction.			
2.9	Screws of screw lock scissors and other instruments must be the concentrically shouldered type, countersunk, flush with, or slightly below the surface or rounded, smooth and flush at the periphery, but not riveted. The screw must retain their position after setting without binding or loosening during use.			
	Scissors			
2.10	The ROCKWELL hardness of the finished instruments must be within the range from 50 HRC to 58 HRC. Opposite blades must not vary in hardness by more than 4 units on the ROCKWELL hardness scale.			
2.11	Scissors must have joints, which move smoothly and must be neither too loose nor too tight: it must be possible to close and reopen the instrument easily with two fingers.			
2.12	The cutting ability of the instrument must be tested. The instrument must cut clearly without tearing.			
2.13	The finish and all edges and surfaces			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	must be uniform and free of burrs, sharp edges (except where required), pores, crevices, gins marks, rough areas, cracks and overlaps.			
3	**System Configuration**			
3.1	ENT Instrument Set			
4	**Technical Specifications**			
4.1	**The instruments required are listed below,** bidder MUST provide full description of all instruments (description includes: full name, type, shape, design, full length, volume and etc.) required below for the evaluation.			
4.2	**Instruments Required**			
I	**ENT instrument set (Morten) with all standard accessories consisting of (or similar):** • Hartmann Crocodile Forceps 3" shaft • Jobson Horne Ring Probe • Thudicum Nasal Specula No.0 • Thudicum Nasal Specula No.1 • Thudicum Nasal Specula No.2 • Thudicum Nasal Specula No.3 • Thudicum Nasal Specula No.4 • Tilley Aural Forceps • Tilley Nasal Forceps • Wax Hook • Carrying case			
II	**ENT diagnostic set with standard accessories consisting of (or similar):** • May light type ophthalmoscope • Positive degrees of magnification (up to 40x) • Negative degrees of magnification (up to -25x) • Otoscope with two levels of magnification • Robust Stainless steel battery handle with brightness control • Spare bulb • Nasal speculum • Bent arm throat lamp • Illuminated tongue depressor • Laryngeal mirror 22mm diameter • Post-Nasal mirror 18mm diameter • Steriliseable • Carrying case			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.3	All instruments must be supplied free of residual scale, acid, grease and grinding and polishing materials and workmanship must be first class throughout. Instruments must be free of defects, which detract from their appearance or impair serviceability, proper functioning and intended use.			
4.4	Bidder MUST attach product catalogues with photos for all instruments as mentioned. These catalogues/photos MUST clearly and correctly mark with non-erasable making pen their respective parameter line number (shown on the left column) and instrument name.			
5	**Accessories, spares and consumables**			
4.1	As specified above.			
6	**Operating Environment**			
6.1	The instrument offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	All instruments offered MUST comply with the relevant material and quality standards for surgical instrument manufacturing and certified by the relevant certification institutions: TUV, TE certification, DIN. These document evidence MUST be submitted with this TSF.			
7.2	All surgical instruments and items offered shall carry clear marking of the manufacturer's name/ brand and the part number/ model number on the surface of each piece of instruments and items. Bidder shall commit its compliance statement to this requirements here.			
7.3	Bidder MUST attach product catalogues with photos for all instruments required above. These catalogues/photos MUST clearly and correctly mark with non-erasable marking pen their respective parameter line number (shown on the left column) and instrument name.			
8	**User Training**			
8.1	Not applicable.			
9	**Warranty**			
9.1	Warranty for 1 year.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Must supply complete unit, ready to use.			
12	**Documentation**			
12.1	User's/instructions manual shall be provided in English.			

3.15) X-ray Dark Room Accessories

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.15)	X-ray Dark Room Accessories			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	X-Ray dark room accessories set for use with X-Ray Machine.			
2	Operational Requirements			
2.1	The dark room accessories are essential for smooth operation of the x-ray machine. Dark room accessories shall include X-ray cassettes, X-ray hangers, Processing Tank, Lead Apron, Lead letters, Dark room safe lamp, grids, thyroid shield, and chest stand.			
3	System Configuration			
3.1	The system consists of: • X-ray cassettes of different sizes • X-ray hangers of different sizes • Processing tank for films • X-ray view box • Lead letters • Safe light • Lead apron • Grids			
4	Technical Specifications			
4.1	X-ray cassettes, green emitting intensifying screen high speed cassette size 20x24 cm (8 x 10"). 2 Piece cassette size 24x30 cm. (10 x 12"). 2 Piece cassette size 30x37 cm (12 x 15"). 4 Piece cassette size 35x43 cm (14 x 17") 2 Piece			
4.2	X-ray hanger stainless steel clip Hanger size20x24 cm (8 x 10"). 6Piece Hanger size 24x30 cm.(10 x 12") 6Piece Hanger size 30x37 cm (12 x 15"). 6Piece Hanger size 35x43 cm (14 x 17") 6Piece			
4.3	Processing Tank SS for films up to 35x43cm (14 x17"), approximately 13 litre capacity 2Piece			
4.4	Lead letters A-Z 1Set Lead figures 0-9 with R & L letter. 10Set			
4.5	X-ray view box for one (1) Film, size 35x43cm (14x17")1Piece X-Ray View Box to view Double Film 1 Piece			
4.6	Apron lead X-ray, coat type 0.25mm lead equivalent + hanger 1Piece Double Sided Lead Apron 025mm lead 1Piece			
4.7	X-ray radiolucent patient position pad 4Piece			
4.8	Dark room safe lamp 1Piece			
4.9	Stationary grids ratio > 6:1 & gridlines > 80/inch.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	2Piece			
4.10	Chest Stand Floor Model 1 Piece			
4.11	S.S. Lead Apron Stand for 5 Aprons Floor Model 1Piece			
4.12	Gonad Shield (Children) – 1 set each (Male/Female)			
5	Accessories, spares and consumables			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	Operating Environment			
6.1	The product offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.			
6.1	Dark room safe lamp should operate on 220-240VAC 50Hz power supply, fitted with appropriate plug. The power cable must be minimum 3 metres long.			
7	Standards and Safety Requirements			
7.1	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007 or Directive 93/42/EEC and its subsequent additional Directives amending to it or equivalent. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	User Training			
8.1	Not applicable			
9	Warranty			
9.1	Warranty for 1 year.			
10	Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
11	Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
12	Documentation			
12.1	User's/ instructions manual in English			

3.16) Resuscitation Set

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.16)	**Resuscitation Set**			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country Of Origin:			
1	**Description of Function**			
1.1	Resuscitation set is use in the hospitals for all emergency situations where respiratory support is needed.			
2	**Operational Requirements:**			
2.1	Resuscitation Set with complete items.			
3	**System Configuration**			
3.1	Resuscitation Set with complete items.			
4	**Technical Specifications**			
4.1	**Controlled Mechanical Ventilation:** • Short term Automatic Resuscitation or longer periods of continuous ventilation of Adult & Child • Mode: Pneumatically controlled Time Cycled • Tidal Volume: 200cc to 1200CC (approx.) • Breathing frequency: 8 to 30 breaths per minute • I:E Ratio : 1 : 1 to 1 : 7 • Alarm : Audio-visual high pressure, low pressure & patient disconnection • Manual over riding button for hyperventilation. • Pneumatic suction of secretion, mucus, blood etc. 190mm of Hg (Approx.) • Tubing for suction, suction catheter • Oxygen delivery : 1 to 10 LPM • Oxygen concentration in CMV mode 100% and 60%			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• Regulator Pressure 60 PSI • Cylinder : Portable – Pin indexed type cylinder • Tubing for use of bigger Cylinder • Oxygen catheter, cylinder Key • Refilling attachment for filling the small cylinder from a bigger cylinder			
4.2	**Manually Operated Suction (Foot Suction) Suitable for Infant, Children & Adult:** • Compact light weight, easy to handle & operate • Durable rubber bellow • Long lasting stainless spring to provide minimum friction pumping • Complete autoclaveable polycarbonate vacuum jar with Lid (500 ml Capacity) • Scratch resistant powder coated frame			
4.3	**Manual Resuscitator for Infant, Children & Adult:** • Silicon bellows - 250 ml, 500 ml & 1600 ml one each. • Non-rebreathing valve for adult. • Non-rebreathing valve with 40 cm of H2O pressure release - 2 Nos. • Mask size: No. 5 & 3, 1& 0 (1 each) • 3600 swivelling patient connector - 2 Nos. • Standard 15 mm inside / 22 mm outside diameter - 2 Nos. • Corrugated PVC oxygen reservoir - 2 Nos.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• 1.5 metre. PVC oxygen tubing - 2 Nos. • Carrying pouch			
4.4	**Airways:** • Silicon, autoclaveable & reusable size 00,0,1,2,3			
4.5	**Intubation:** • Laryngoscope: Stainless steel straight & curved (for children & adult) • Laryngoscopes blades of three sizes (small, medium & large) suitable for infant, children & adult. • Spare laryngoscope bulbs 2 nos. each • Magill's Forceps for adult and paediatric • Reusable Endotracheal tube (Cuffed & Uncuffed) with corresponding connectors size 2.5, 3, 3.5, 4, 5, 6, 7, 8, 9 mm. • Carrying pouch			
4.6	**Intravenous Access & Administration:** • I.V. rod in two (folded). • IV cannula with three way stop for adult & paediatric sizes 18 G , 20g , 22G • IV. giving Set • Tourniquet • Adhesive plaster- 01 Roll • Rolled bandages • Disposable syringe-(2ml & 5 ml) 05 No each • Disposable needles- 10 nos			
4.7	**Diagnostics, Dressings & Others:**			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• Stethoscope • Clinical Thermometer • Aneroid Sphygmomanometer • Percussion Hammer • Tongue spatula • Examination torch • Dissecting forceps • Tissue forceps • Haemostatic forceps • Dressing scissors • Sterilized gauge-01 No • Needle holder • Mouth bite • B.P. handles (Size No.03). • B.P. blades 02 (Size No.03); • Sterilized gloves 6.5 & 7.5 (One Pair each)			
4.8	All the components must be conveniently assembled in a sturdy blow-moulded lockable carrying case with shaped compartments and extra space for drugs, medicines etc.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature,			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Humidity, etc.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant requirements of TUV, CE mark (MDD), FDA and/ or any equivalent quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	On site operational training till the familiarity of the system and satisfaction of end user shall be provided.			
9	**Warranty**			
9.1	Comprehensive warranty for 1 year.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of spare parts and accessories with their part numbers and costing.			

3.17) High Pressure Station

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.17)	**High Pressure Station**			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country Of Origin:			
1	**Description of Function**			
1.1	Unit for production of medical-grade gases, oxygen, compressed air and vacuum in the required quality for the medical applications.			
2	**Operational Requirements:**			
2.1	High pressure station for production of medical grade oxygen, compressed air and vacuum.			
3	**System Configuration**			
3.1	High pressure station for production of medical grade oxygen, compressed air and vacuum.			
4	**Technical Specifications**			
4.1	2 Qty quick coupling, self-closing for O2			
4.2	2 Qty quick coupling, self-closing for AIR			
4.3	Control panel with On/Off switch, operation hours counter, fusing,			
4.4	Pressure gauge for oxygen, compressed air and vacuum.			
4.5	Coarse dust filter, preliminary filter and bacterial filter, easy to replace.			
4.6	Compressed air double aggregate, sound and vibration insulated.			
4.7	Compressed air preparation via dew point reduction, with air ventilation, condensation water separator and fine filter.			
4.8	Zeolite adsorptions material with oxygen flushing no wear and tear parts.			
4.9	Sound and vibration insulated, with top shelf and lateral holding rail, Stainless steel 25 x 10 mm.			
4.10	O2-Flow :1 - 6 l/min.			
4.11	Air-Flow : 10 l/min			
4.12	O2 pressure: 1, 2 - 1.5 bar (according to O2 need).			
4.13	Air pressure: 1.2 - 1.5 bar (according to Air need).			
4.14	Vacuum : -0,7 to 0 bar / 15 l/min.			
4.15	Current: approx. 4 Ampere			
4.16	Output: 1200W			
4.17	Initial current: 6.8 A Operating current: 3.8 A			
5	**Accessories, spares and consumables**			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240VAC, 50Hz power supply, fitted with appropriate plug. The power cable must be minimum 3 metres long.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant requirements of TUV, CE mark (MDD), FDA and/ or any equivalent quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007.			
7.3	Equipment safety standard should follow IEC 60601.			
8	**User Training**			
8.1	On site operational training till the familiarity of the system and satisfaction of end user shall be provided.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	Standard warranty conditions are applicable.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of spare parts and accessories with their part numbers and costing.			

3.18) Solar Water Heating System

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3.18)	**Solar Water Heating System**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Solar water heating system to get the hot water for hospital use.			
2	**Operational Requirements**			
2.1	Radiation from the Sun is collected by a solar collector converted into heat energy which transfers into the water flowing through the collectors and then the hot water is stored in an insulated stainless steel tank.			
3	**System Configuration**			
3.1	Solar Water Heating System complete			
4	**Technical Specifications**			
I	**Solar Flat Plate Collector**			
4.1	**Solar flat plate collector components:** Solar flat plate collector cover plate made of toughened glass. Sheet for absorber made of copper. Absorber made of copper sheet and copper tube. Cover plate: cover plate shall be toughened glass and thickness of 4.0 mm (min). The solar transmittances of the cover plate shall be minimum 85 % at near normal incidence.			
4.2	Size: 2050 x 1040 x 100 mm			
4.3	Collector Frame: Extruded Aluminium			
4.4	Glass retaining Angle: Extruded Aluminium			
4.5	Absorber material: Copper			
4.6	Absorber coating: Selectively coated Black Chrome with nickel undercoat.			
4.7	Absorptivity: >0.95			
4.8	Emissivity: < 0.2			
4.9	Header: Copper – 1"			
4.10	Riser: Copper – ½"			
4.11	Fin: Copper – 115 mm x 0.15 mm thick			
4.12	Number of Fins: 9			
4.13	Bonding between riser & header: Brazing with special neck formation in the header for smooth flow of fluid.			
4.14	Back sheet: Aluminium, Riveted & sealed with Silicone sealant			
4.15	Glass: 4mm, Toughened, Low iron content. Transmittance > 85%			
4.16	End connection: Brass flange			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.17	Back Insulation: Rockwool – 50mm, density – 48 kg/m3			
4.18	Sides insulation: PUF – thickness 25mm			
4.19	Reflective foil: Aluminium			
4.20	Frame Corners: Sealed from inside with Silicone Sealant.			
II	**300 Litres Solar Hot Water Storage Tank with Heat Exchanger**			
4.21	Storage Capacity: 300 Litres			
4.22	**Bare Tank:** • Material of Construction (MOC): Stainless steel -304 • Material thickness: 2.5 ± 0.1 mm • Coating: Glass Enamel Internal Coating • Inlet feed water connection size: 1" BSPM • Outlet hot water connection size: 1" BSPM			
4.23	**Heat Exchanger:** • Heat Exchanger type: Jacket type • Material of Construction (MOC): Stainless steel material • Connectivity with Collector: ¾" BSPM • Makeup Tank: Stainless Steel, thickness 1mm			
4.24	**Tank Insulation:** • Material: Polyurethane Foam (PUF). • Thickness: 50 mm • Maximum operating pressure: 5 bar • Backup electrical heater immersion type: 2 kW x 2 Nos., Flange mounted			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable must be at least 3 metres long.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	This unit shall be certified to meet ISO9001 or ISO14971 or ISO 13485:2003/AC: 2007.			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

4.1) Light Weight Hand Carry Ultrasound Machine

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.1)	**Light Weight Hand Carry Ultrasound Machine**			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	**Description of Function**			
1.1	A general purpose Hand Carried Colour Doppler Ultrasound Imaging System.			
2	**Operational Requirements**			
2.1	It shall operate on AC supply as well as on rechargeable battery.			
3	**System Configuration**			
3.1	System shall come with main unit, 1 probe, 1 extra battery and 1 unit of black and white thermal printer.			
4	**Technical Specifications**			
4.1	The unit shall be light weighted, easy to carry, total weight including 1 probe and battery shall not be more than 4kg. Bidder to describe here the total weight of the unit in Kg.			
4.2	Shall have long lasting inbuilt rechargeable battery, which shall support up to 2 hours of routine ultrasound examinations.			
4.3	Main applications: OB/GYN, abdominal, cardiac and small parts.			
4.4	System shall come with main unit, 1 probe, 1 extra battery and 1 unit of black and white thermal printer.			
4.5	Main unit: With minimum 10" display Full alphanumeric keyboard Velocity Colour to detect colour flow with PW The system shall accept most of the common probe types of: convex array, linear array, phased array. Scan modes: B-Mode, M-Mode & Colour Doppler Mode System shall be incorporated with English operation menu and reporting. With multi-frequency imaging capability Maximum Display depth: Not less than 30 cm Machine should have fast boot up less then 30 sec Gray scale levels: 256 Application specific examination protocols with common setting related to image display /			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	adjustment, annotation & measurements. Obstetric analysis: BPD, CRL, AC, HC, FL , GS, AFI, etc for Estimation of Gestational Age and Fetal Weight, Heart Rate, growth chart, Obstetric doppler Calculation (MCA, umbilical artery etc) and OB/GYN report system Body markers Automatic gain control Near and far Gain adjustable. Contrast, adjustable Image zoom, freeze, text annotation, Focus: auto adjustable Dynamic range 160 db or more Image storage: more then 10000 images on main unit also store cine Cine memory of 200 frames for cine loop playback			
4.6	Probe: 2 to 5 MHz convex probe for Ob/Gyn and Abdominal application is to be supplied.			
4.7	Unit and Probe must be sturdy, resistant to breakage & damage & drop safe or minor fall on hard surface.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts, required for the proper operation of the above maintenance tools and cleaning /lubrication materials item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable must be at least 3 metres long.			
6.3	Resettable overcurrent breaker shall be fitted for protection.			
6.4	Suitable Servo controlled Stabilizer must be provided.			
7	**Standards and Safety Requirements**			
7.1	System and probe must have USFDA /CE /TUV clearance and certified to meet the quality and safety standards. Certificates showing the compliance of the system and probe with quality and safety standards MUST be			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	submitted.			
7.2	IEC60601-1 Class I Type BF			
8	**User Training**			
8.1	On site operational training till the familiarity of the system and satisfaction of end user shall be provided.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	**Preventive & Corrective Maintenance:** During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

5.1) X-Ray Machine 100 mA with Voltage Stabiliser

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
5.1)	**X-Ray Machine 100 mA with Voltage stabiliser**			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country Of Origin:			
1	**Description of Function**			
1.1	X-ray unit is required to perform routine X-Ray studies in the hospital.			
2	**Operational Requirements:**			
2.1	General purpose X-ray machine 100 mA with fixed table			
3	**System Configuration**			
3.1	X-Ray Machine 100 mA with fixed horizontal table, Voltage stabiliser			
4	**Technical Specifications**			
4.1	**X-ray Generator:** • Must be microprocessor controlled high frequency, output 6 KW or above to give a constant output suitable for radiography. • Compact soft touch control panel • Machine ON/OFF switch • Must have a digital display of mAs and kV and an electronic timer. • KV range:40kV to 110kV • mA range: 100 mA or more • Please specify mA and seconds separately and not mAs alone. • Anatomical Programmable Radiographic mode shall be available. • Self-diagnostic programmed with indicators for Earth fault error, KV error, Filament error, Tube head Thermal error. • A Dual action hand switch with			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	retractable cord should be provided for radiation protection of operator.			
4.2	**X-Ray Tube:** • Rotating anode X-Ray Tube with dual focal spot & thermally protected (specify focal spot) • Collimator with auto shut off facility should be provided**.**			
4.3	**Table:** • Horizontal Bucky table with floating table top with grid of 17 ¼"X18 ¾", grid ratio of 8:1 103 lines should be provided. The Bucky tray should accept cassettes up to 14X17"			
4.4	**Column Stand:** Tube stand from floor to ceiling must be provided.			
4.5	**Voltage Stabiliser for 100 mA X-ray machine for trouble free operation:** • Capacity suitable to match the output of the X-ray machine • The regulations of the output pre-set voltage must be automatic. • Must work for input voltage range of 100-290VAC, single phase. • Automatic cut-off time: between 2 to 4 seconds of input exceeding the high/ low limit. • There should be a restart delay of 6 to 9 minutes after the cut-off. • Analogue meters included to provide readings for input voltage as well as output voltage. Same meter can be used with the help of a switch to indicate output and the input voltage as desired. • Output voltage must be 220 V ±7%, 50 Hz.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• Stability of output voltage with temperature changes. • All transformers to be vacuum impregnated with high-class varnish, for reliability and long life. • Provision for two outputs with combined 15/5A sockets. (Two sockets to be provided, each are having 15/5A Sockets) with power cable. • There must be a quick-start facility, which will start the system instantaneously by bypassing Delayed Start. • Outer cabinet should be enamelled after proper anti rust process.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** Lead Aprons Lightweight 01 Chest Stand 01			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable must be at least 3 metres long.			
6.3	Resettable overcurrent breaker shall be fitted for protection.			
6.4	Suitable Servo controlled Stabilizer must be provided.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant requirements of TUV, CE mark (MDD), FDA and/ or any equivalent quality and safety standards.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
8	**User Training**			
8.1	On site operational training till the familiarity of the system and satisfaction of end user shall be provided.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	**Preventive & Corrective Maintenance:** During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

6.1) Generator Set Diesel 40KVA, Three Phase

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
6.1)	**Generator Set Diesel 40KVA, Three Phase**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Diesel driven generator set, water cooled and skid mounted, capable of delivering up to 40 kVA at 1500 rpm			
2	**Operational Requirements**			
2.1	A complete diesel generator set including the diesel engine, alternator, control panel, automatic starting equipment, fuel tank, battery and all other accessories for autonomous operation.			
3	**System Configuration**			
3.1	A complete diesel generator set including the diesel engine, alternator, control panel, automatic starting equipment, fuel tank and all other accessories for autonomous operation.			
4	**Technical Specifications**			
4.1	**Rated power:** 40 kVA, 32 kW, Power factor (Cos. phi = 0.8), 400 V, 3-phase, 50 Hz at NTP (Normal Temperature and Pressure).			
4.2	**Engine:** • Heavy duty diesel engine, with the following characteristics: • Water-cooled with fresh water loop and tropical radiator • Synchronous speed: Up to 1500 rpm • Mechanical speed governor • Heavy duty air cartridge filter • Cartridge oil filter • Industrial silencer • Exhaust with suitable flexible piping • Automatic electric starter including batteries, leads and automatic battery charging equipment			
4.3	**Fuel tank:** • Fuel tank of suitable construction with capacity sufficient to run the generator set continuously for 8 hours at the rated capacity. • Suitable piping should be provided for connecting the tank to the engine as			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	well as for filling the tank • Fuel level indicator should be placed conveniently on the panel board			
4.4	**Alternator:** • Synchronous and brushless • Automatic fast voltage regulator, maintaining the output within 2 % under normal conditions • Screen protected • CEE Sockets: one 3 pole and one 5 pole			
4.5	**Panel board:** Made of steel sheets of appropriate thickness subjected to anti-oxidizing treatment and covered with epoxy resin with suitable protection factor. The panel board comprises: • Automatic main circuit breaker • Change over switch with positions for "MAINS" - "OFF" - "GENERATOR". • Key to start and stop the unit • Emergency stop button • Set-point for speed/governor control • Set-point for voltage control • Meters for: Volts (with selector switch to show phases to zero, and phase to phase voltages), amperes (three meters or with selector switch • to show current in all three phases), frequency, running hours counter • Acoustic and visible alarms for critical parameters including high engine temperature low oil pressure and low fuel should be provided.			
4.6	**Protection:** • The generator set must be equipped with automatic shutdown equipment if fatal parameters are exceeded including low oil pressure, high engine temperature and over-speed.			
4.7	**Mounting:** The engine and the alternator should be connected with a heavy-duty elastic coupling and should be mounted on a common rigid base frame with anti-vibration dampers and lifting eyes flexible for transportation Engine, alternator and panel should be one integrated unit mounted on skids.			
4.8	**Connection to ground:**			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• The generator is supplied with connection to ground system comprising low resistance rod(s), terminals, cables, etc.			
4.9	The generator set mounted in a sound attenuated and weather protective canopy to reduce the noise level down to 70 dB (A) at a distance of 7 metres.			
4.10	The generator must have Automatic Mains Failure (AMF) system.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Engine coolant/antifreeze liquid for the first installation • Tools kit including pipe spanners for injectors, etc. • Oil and air filter cartridges • Two full sets of v-belts and a full set of cylinder head gaskets • A full set of replacement switches/sensors for detection of fatal parameters (low oil pressure, high engine temperature, belt failure, etc.).			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 400V 50 Hz AC Three phase fitted with appropriate plugs.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007.			
8	**User Training**			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

6.2) Generator Set Diesel 10KVA, Single Phase

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
6.2)	**Generator Set Diesel 10KVA, Single Phase**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Diesel driven generator set, water cooled and skid mounted, capable of delivering up to 10 kVA at 1500 rpm			
2	**Operational Requirements**			
2.1	A complete diesel generator set including the diesel engine, alternator, control panel, automatic starting equipment, fuel tank, battery, and all other accessories for autonomous operation.			
3	**System Configuration**			
3.1	A complete diesel generator set including the diesel engine, alternator, control panel, automatic starting equipment, fuel tank and all other accessories for autonomous operation.			
4	**Technical Specifications**			
4.1	Must work on 220V 50Hz single phase Rated Power: 10 kVA, 24 kW, Power factor (Cos. phi = 0.8)			
4.2	**Engine:** • Heavy duty diesel engine, with the following characteristics: • Water-cooled with fresh water loop and tropical radiator • Synchronous speed: Up to 1500 rpm • Mechanical speed governor • Heavy duty air cartridge filter • Cartridge oil filter • External fuel filter • Industrial silencer • Exhaust with suitable flexible piping • Automatic electric starter including batteries, leads and automatic • battery charging equipment			
4.3	**Fuel Tank:** • Fuel tank of suitable construction with capacity sufficient to run the generator set continuously for 8 hours at the rated capacity. Suitable piping should be provided for connecting the tank to the engine as well as for filling the tank			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• Fuel level indicator should be placed conveniently on the panel board			
4.4	**Alternator:** • Synchronous and brushless • Automatic fast voltage regulator, maintaining the output within 2 % under normal conditions • Screen protected • CEE Sockets: one 3 pole			
4.5	**Panel Board:** Made of steel sheets of appropriate thickness subjected to anti-oxidizing treatment and covered with epoxy resin with suitable protection factor. The panel board comprises: • Automatic main circuit breaker • Change over switch with positions for: "MAINS" - "OFF" - "GENERATOR" • Key to start and stop the unit • Emergency stop button • Set-point for speed/governor control • Set-point for voltage control Meters for: • Volts (with selector switch to show phases to zero, and phase voltages), amperes (with selector switch to show current), frequency, running hours counter. • Acoustic and visible alarms for critical parameters including high engine temperature low oil pressure and low fuel should be provided.			
4.6	**Protection:** • The generator set must be equipped with automatic shutdown equipment if fatal parameters are exceeded including low oil pressure, high engine temperature and over-speed.			
4.7	**Mounting:** The engine and the alternator should be connected with a heavy-duty elastic coupling and should be mounted on a common rigid base frame with anti-vibration dampers and lifting eyes flexible for transportation Engine, alternator and panel should be one integrated unit mounted on skids.			
4.8	**Connection to ground:** • The generator is supplied with			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	connection to ground system comprising low resistance rod(s), terminals, cables, etc.			
4.9	The generator set mounted in a sound attenuated and weather protective canopy to reduce the noise level down to 70 dB (A) at a distance of 7 metres.			
4.10	The generator must have Automatic Mains Failure (AMF) system.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Engine coolant/antifreeze liquid for the first installation • Tools kit including pipe spanners for injectors, etc. • Oil and air filter cartridges • Two full sets of v-belts and a full set of cylinder head gaskets • A full set of replacement switches/sensors for detection of fatal parameters (low oil pressure, high engine temperature, belt failure, etc.).			
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs.			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	This unit shall be certified to meet ISO9001 and ISO14971 and ISO 13485:2003/AC: 2007.			
8	**User Training**			
8.1	Supply shall include user training.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

7.1) Test Equipment: Anesthesia Unit Calibration

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.1	**Test Equipment: Anesthesia Unit Calibration**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Precision manometer** for testing of anesthesia machines			
2	pressure range: 0-80mbar			
3	Adapter for pressure hose/ thread 1/4"			
4	analog display with "freeze" function			
5	**Mobile Gas Flow Analyser (optional):**			
6	Accuracy: +/-2%			
7	Range: approx. low flow 0-25l/min; High flow: 25-40l/min			
	NOTE			
1	Equipment safety standard should follow IEC 60601			
2	***Must have* CE Marking!**			
3	The supplier should prove that their design and production facilities are accredited to ISO 9001/EN46001 or ISO 9002/EN46002 or internationally acceptable equivalent			
4	All electrical Machines should be designed for 220V, single phase 50Hz electrical supply system			
5	Each equipment needs two sets of Users and Service manuals with complete circuit and wiring diagrams in English			
6	All the information provided in the quotation should be substantiated by attached original product data sheet, otherwise these will not be considered			
7	Important spare-parts should be specified with the equipment			
8	If more than one model is quoted, specification forms need to be filled separately for individual models			
9	Bidders may propose any product/system which is equivalent or better than the requirements specified above			

7.2) Test Equipment: MA meter (x-ray)

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.2	**Test Equipment: MA meter (x-ray)**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	mAs-Meter for X-Ray-Testing			
2	battery-operated			
3	Dynamic Range 10mA to 200mA			
4	Digital MAS Range: 0.1 to 999.9MAS			
5	Digital Time Range: 1msec to 9999msec			
6	MAs Accur (mA waveform) 2msec or 1.5% (50mA to 1000mA)			
7	Including case and test leads			
	NOTE			
1	Equipment safety standard should follow IEC 60601			
2	***Must have* CE Marking!**			
3	The supplier should prove that their design and production facilities are accredited to ISO 9001/EN46001 or ISO 9002/EN46002 or internationally acceptable equivalent			
4	All electrical Machines should be designed for 220V, single phase 50Hz electrical supply system			
5	Each equipment needs two sets of Users and Service manuals with complete circuit and wiring diagrams in English			
6	All the information provided in the quotation should be substantiated by attached original product data sheet, otherwise these will not be considered			
7	Important spare-parts should be specified with the equipment			
8	If more than one model is quoted, specification forms need to be filled separately for individual models			
9	Bidders may propose any product/system which is equivalent or better than the requirements specified above			

7.3) Test Equipment: MOhm-meter (Insulation Test)

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.3	**Test Equipment: MOhm-meter (Insulation Test)**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Digital Insulation/Continuity Tester			
2	battery operated			
3	easy to read LCD display			
4	Insulation resistance 2, 20, 100MOhms and 2GOhm+/-5%			
5	Voltage: 0 - 500V AC/DC			
6	Test current of 1mA in line with EN61557-2			
7	Test current of 200mA in line with EN61557-4			
8	Auto-null facility to zeroout lead resistance			
9	including case and test leads			
	NOTE			
1	Equipment safety standard should follow IEC 60601			
2	***Must have* CE Marking!**			
3	The supplier should prove that their design and production facilities are accredited to ISO 9001/EN46001 or ISO 9002/EN46002 or internationally acceptable equivalent			
4	All electrical Machines should be designed for 220V, single phase 50Hz electrical supply system			
5	Each equipment needs two sets of Users and Service manuals with complete circuit and wiring diagrams in English			
6	All the information provided in the quotation should be substantiated by attached original product data sheet, otherwise these will not be considered			
7	Important spare-parts should be specified with the equipment			
8	If more than one model is quoted, specification forms need to be filled separately for individual models			
9	Bidders may propose any product/system which is equivalent or better than the requirements specified above			

7.4) Test Equipment: Oscilloscope

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.4	**Test Equipment: Oscilloscope**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Oscilloscope with good readable Display			
2	**Vertical deflection:**			
3	Bandwith:30MHz			
4	Two channels			
5	Impedance: 1MOhm			
6	Input voltage: min. 400V			
7	Sensitivy: 5mV to 20V			
8	Operating modes: CH1 CH2, CH3, ADD, XY (ALT and CHOP automatic)			
9	**Horizontal deflection:**			
10	Timebase: 1			
11	Sweep speed: 50ns to 200ms			
12	XY mode: 2 MHz			
13	**Triggering:**			
14	Indication of trigger: by TRIG LED			
15	Sources CH1, CH2, ALT, EXT, line			
16	Trigger slope: neg. and pos.			
17	Coupling: DC, AC, HF, LF filters, TV raster, lin TV			
18	in shock-resistant box with all necessary leads			
	NOTE			
1	Equipment safety standard should follow IEC 60601			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
2	***Must have* CE Marking!**			
3	The supplier should prove that their design and production facilities are accredited to ISO 9001/EN46001 or ISO 9002/EN46002 or internationally acceptable equivalent			
4	All electrical Machines should be designed for 220V, single phase 50Hz electrical supply system			
5	Each equipment needs two sets of Users and Service manuals with complete circuit and wiring diagrams in English			
6	All the information provided in the quotation should be substantiated by attached original product data sheet, otherwise these will not be considered			
7	Important spare-parts should be specified with the equipment			
8	If more than one model is quoted, specification forms need to be filled separately for individual models			
9	Bidders may propose any product/system which is equivalent or better than the requirements specified above			

7.5) Maintenance Tool Set

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
7.5	**Maintenance Tool Set**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**BASIC ELECTRIC/ELECTRONIC TOOL AND INSTRUMENT SET**			
2	Electronic Service Case 6400 basic tool set in transport case of high german instrumnet standard for professional use			
3	Soltering station ERSAG Analog			
4	De-soltering pump manual			
5	tin-solder			
6	Digital Multimeter T RMS good standard multimeter complete with leads			
7	OPTIONAL: Hand Oczilloscope FLUKE 123			
8	Vice for electric/electronic workshop			
9	Power supply unit 2x 0-40V, 0-3A			
10	Clamp meter for AC and DC measurements			
11	Safety testing set			
12	**BASIC MECHANICAL TOOL AND INSTRUMENT SET**			
13	Professional standard Hammer-Drill with chuck in case, BOSCH or similar			
14	Drill set HSS Steel 1-10mm, 0.5mm			
15	SDS Plus Drill Set. 7 pcs.			
16	Digital precision thermometer			
17	Sket outlets with electric protection 10mA			
18	Set of ranchets 1/2" and 1/4", high quality			
19	Set of combination wrenches 8-19mm			
20	**MEDICAL EQUIPMENT TESTING SET**			
21	ECG Tester, battery supplied handheld			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
22	Safety Tester according to VDE 701/702 and 751, Bentron unit			
23	Testing unit for HF Diathermie equipment for electric loads between 20 and 5.2kOhms, Benton unit			
24	Electric Output Tester for Defibrlators with ECG simulator			
	NOTE			
1	Equipment safety standard should follow IEC 60601			
2	***Must have* CE Marking!**			
3	The supplier should prove that their design and production facilities are accredited to ISO 9001/EN46001 or ISO 9002/EN46002 or internationally acceptable equivalent			
4	All electrical Machines should be designed for 220V, single phase 50Hz electrical supply system			
5	Each equipment needs two sets of Users and Service manuals with complete circuit and wiring diagrams in English			
6	All the information provided in the quotation should be substantiated by attached original product data sheet, otherwise these will not be considered			
7	Important spare-parts should be specified with the equipment			
8	If more than one model is quoted, specification forms need to be filled separately for individual models			
9	Bidders may propose any product/system which is equivalent or better than the requirements specified above			

8.1) 250 KVA Voltage Stabiliser

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8.1)	**250 KVA Voltage Stabiliser**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Servo voltage stabilizers save the life of costlier medical equipment, lab equipment & other equipment etc. through connecting AC voltage which is not stabilized, and dips at one point of time and at other point of time rises to very high value. The Servo Stabilizer gives the stable output voltage requires for smooth functioning of medical & other costly equipment.			
2	**Operational Requirements**			
2.1	250 KVA servo voltage stabiliser three phase			
3	**System Configuration**			
3.1	250 KVA servo voltage stabiliser three phase			
4	**Technical Specifications**			
4.1	Capacity: 250 KVA			
4.2	Servo voltage stabiliser 3 phase + Neutral (4 wire), suitable for unbalanced load			
4.3	Input voltage: • Phase to phase (line to line) 320V～480V • Line to neutral：90V~270V			
4.4	Output voltage: • Phase to phase (line to line): 420V±3% • Line to neutral: 220V±3%			
4.5	Input frequency range: 47-55 Hz			
4.6	Control circuit: IC based fully automatic circuit			
4.7	Wave form distortion: Nil			
4.8	Efficiency: > 98 % on full load			
4.9	Auto/Manual Mode: Must be Raise / Lower push button			
4.10	Ambient temperature: 0-50 ^{0}C.			
4.11	Insulation resistance: The stabilizer-to-ground insulation resistance≥2MΩ			
4.12	Duty cycle: Continuous on 100% load			
4.13	Voltage adjustment: Output Voltage adjustment through Potentiometer on front panel			
4.14	Voltmeter (Digital): Must display Input/ Output voltages through toggle switch/ PB/LED			
4.15	Indication: Neon to indicate for mains, Low / High/ Output Voltage.			
4.16	Output Line Regulation: ± 1 %			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.17	Cooling type: Oil cooled new mineral insulating transformer oil.			
4.18	Basic Construction: Consists of Auto Transformer (Dimmer/Liner), Buck Boost Transformer, Servo Motor (All copper Wound).			
4.19	Enclosures (Oil Cooled): Metal sheet Tank with lifting Lugs, Radiators, Earthing terminals , Rating plate, Oil filling Valve, Oil level Indicator, Suitable input/output Terminals, Cable Box etc. as per site requirement.			
4.20	Build in spike suppressor in input/output			
4.21	MCB for protection against overload and short circuit.			
4.22	Auto /Manual operation facility.			
4.23	Load tripping actuating device.			
4.24	Digital meter for monitoring of phase to phase voltage, phase load current and line frequency.			
4.25	Manual by-pass switch.			
4.26	Protection against • High and low output voltage • Over and under voltage • Overload in any Phase • Lightning and surge protection • Malfunction protection • Short-circuit protection			
4.27	Noise: <50dB			
4.28	Output delay: The stabiliser must have delay in 3-5 seconds (short delay), 3-5 minutes (long delay) for under voltage & overvoltage protection and to get the stable output power and in order to protect medical equipment & other electronic devices from the shocking damage. The delay time can be set according to user requirements.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: Three phase 400V 50 Hz.			

S.N.	Purchaser' Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Input voltage: • Phase to phase (line to line) 320V～480V • Line to neutral：90V~270V			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	This unit shall be certified to meet ISO9001 or ISO14971 or ISO 13485:2003/AC: 2007			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	**Preventive & Corrective Maintenance:** During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of equipment on site at near mains transformer/mains before distribution panel including cabling, connection and all other necessary works requires for installation & commissioning at its own cost.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

8.2) 100 KVA Voltage Stabiliser

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
8.2)	**100 KVA Voltage Stabiliser**			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Servo voltage stabilizers save the life of costlier medical equipment, lab equipment & other equipment etc. through connecting AC voltage which is not stabilized, and dips at one point of time and at other point of time rises to very high value. The Servo Stabilizer gives the stable output voltage requires for smooth functioning of medical & other costly equipment.			
2	**Operational Requirements**			
2.1	100 KVA servo voltage stabiliser three phase			
3	**System Configuration**			
3.1	100 KVA servo voltage stabiliser three phase			
4	**Technical Specifications**			
4.1	Capacity: 100 KVA			
4.2	Servo voltage stabiliser 3 phase + Neutral (4 wire), suitable for unbalanced load			
4.3	Input voltage: • Phase to phase (line to line) 320V～480V • Line to neutral：90V~270V			
4.4	Output voltage: • Phase to phase (line to line): 400V±3% • Line to neutral: 220V±3%			
4.5	Input frequency range: 47-55 Hz.			
4.6	Control circuit: IC based fully automatic Circuit			
4.7	Wave form distortion: Nil			
4.8	Efficiency: > 98 % on full load			
4.9	Auto/Manual Mode: Must be Raise / Lower push button			
4.10	Ambient temperature: 0-50 ^{0}C.			
4.11	Insulation resistance: The stabilizer-to-ground insulation resistance≥2MΩ			
4.12	Duty cycle: Continuous on 100% load			
4.13	Voltage adjustment: Output Voltage adjustment through Potentiometer on front panel			
4.14	Voltmeter (Digital): Must display Input/ Output voltages through toggle switch/ PB/LED			
4.15	Indication: Neon to indicate for mains, Low / High/ Output Voltage.			
4.16	Output Line Regulation: ± 1 %			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
4.17	Cooling type: Oil cooled new mineral insulating transformer oil.			
4.18	Basic Construction: Consists of Auto Transformer (Dimmer/Liner), Buck Boost Transformer, Servo Motor (All copper Wound).			
4.19	Enclosures (Oil Cooled): Metal sheet Tank with lifting Lugs, Radiators, Earthing terminals , Rating plate, Oil filling Valve, Oil level Indicator, Suitable input/output Terminals, Cable Box etc. as per site requirement.			
4.20	Build in spike suppressor in input/output			
4.21	MCB for protection against overload and short circuit.			
4.22	Auto /Manual operation facility.			
4.23	Load tripping actuating device.			
4.24	Digital meter for monitoring of phase to phase voltage, phase load current and line frequency.			
4.25	Manual by-pass switch.			
4.26	Protection against • High and low output voltage • Over and under voltage • Overload in any Phase • Lightning and surge protection • Malfunction protection • Short-circuit protection			
4.27	Noise: <50dB			
4.28	Output delay: The stabiliser must have delay in 3-5 seconds (short delay), 3-5 minutes (long delay) for under voltage & overvoltage protection and to get the stable output power and in order to protect medical equipment & other electronic devices from the shocking damage. The delay time can be set according to user requirements.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
6.2	Power supply: Three phase 400V 50 Hz. Input voltage: • Phase to phase (line to line) 320V～480V • Line to neutral：90V~270V			
7	**Standards and Safety Requirements**			
7.1	The unit offered shall be certified to meeting the relevant quality and safety requirements of TUV, CE mark (MDD), FDA, IEC, Radiation safety, safety of pressurised equipment and any other relevant quality and safety standards. Certificates showing the compliance of this unit offered with any relevant quality and safety standards MUST be submitted with this TSF.			
7.2	This unit shall be certified to meet ISO9001 or ISO14971 or ISO 13485:2003/AC: 2007			
8	**User Training**			
8.1	Supply shall include user training.			
9	**Warranty**			
9.1	Comprehensive warranty for 2 years.			
10	**Maintenance Service During Warranty Period**			
10.1	**Preventive & Corrective Maintenance:** During the warranty period supplier must ensure planned preventive maintenance (PPM) at least 3 nos. in a year along with corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper installation and commissioning of equipment on site at near mains transformer/mains before distribution panel including cabling, connection and all other necessary works requires for installation & commissioning at its own cost.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	Certificate of calibration and inspection.			
12.4	List of important spare parts and accessories with their part numbers and costing.			

4. Drawings

These Bidding Documents include no drawings.

5. Inspections and Tests

The following inspections and tests shall be performed:

The technical team of the Purchaser, may conduct all or some of the following activities to verify the compliance of the offered goods a sper specifications:

- visit the manufacturing site as required and confirm the manufacturing process to the required standards or certifications
- verify the products before shipment (pre shipment inspection)
- verify the products after arrival to the destination (post shipment inspection)
- verify the products after arrival and successful installation and commissioning (acceptance inspection)
- Technical trials or lab tests may be conducted for any equipment or instruments in case of any doubts on the quality against the specification

All costs of installation, operation, demonstration, technical assistance, inspections and tests shall be borne by the bidder, excepting those incurred for the salary and the travel costs of the Buyer's technical team.

PART 3 - Contract

Section VII. General Conditions of Contract

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Section VII. General Conditions of Contract

1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

(a) "Bank" means the KfW

(b) "Contract" means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.

(c) "Contract Documents" means the documents listed in the Contract Agreement, including any amendments thereto.

(d) "Contract Price" means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.

(e) "Day" means calendar day.

(f) "Completion" means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.

(g) "GCC" means the General Conditions of Contract.

(h) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.

(i) "Purchaser's Country" is the country specified in the Special Conditions of Contract (SCC).

(j) "Purchaser" means the entity purchasing the Goods and Related Services, as specified in the **SCC.**

(k) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.

(l) "SCC" means the Special Conditions of Contract.

(m) "Subcontractor" means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

(n) "Supplier" means the natural person, private or government

entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.

(o) "The Project Site," where applicable, means the place named in the **SCC.**

2. Contract Documents

2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

3. Fraud and Corruption

3.1 If the Purchaser determines that the Supplier has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Purchaser may, after giving 14 days notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 35 shall apply as if such expulsion had been made under Sub-Clause 35.1.

(a) For the purposes of this Sub-Clause:

(i) "corrupt practice" [6] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) "fraudulent practice" [7] is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "collusive practice"[8] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "coercive practice"[9] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

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6 "another party" refers to a public official acting in relation to the procurement process or contract execution]. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

7 a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

8 "parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.

9 a "party" refers to a participant in the procurement process or contract execution.

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Clause 11 [Inspections and Audits by the Bank].

3.2 Should any employee of the Supplier be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the purchase of the Goods, then that employee shall be removed.

4. Interpretation

4.1 If the context so requires it, singular means plural and vice versa.

4.2 Incoterms

(a) Unless inconsistent with any provision of the Contract**,** the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.

(b) The terms EXW, CIP, FCA, CFR, and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **SCC** and published by the International Chamber of Commerce in Paris, France.

4.3 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

(a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the **SCC.** Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified**,** in which case, for purposes of interpretation of the Contract, this translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6. Joint Venture, Consortium or Association

6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

7. Eligibility

7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.

7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in

Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

8. Notices

8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the **SCC.** The term "in writing" means communicated in written form with proof of receipt.

8.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

9. Governing Law

9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Purchaser's Country, unless otherwise specified in the **SCC.**

10. Settlement of Disputes

10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC.**

10.3 Notwithstanding any reference to arbitration herein,

(a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and

(b) the Purchaser shall pay the Supplier any monies due the Supplier.

11. Inspections and Audit by the Bank

11.1 The Supplier shall permit the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and/or the accounts and records of the Supplier and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the Bank if required by the Bank. The Supplier's attention is drawn to Clause 3, which

provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility under the Procurement Guidelines).

12. Scope of Supply

12.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.

13. Delivery and Documents

13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the **SCC.**

14. Supplier's Responsibilities

14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.

15. Contract Price

15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the **SCC.**

16. Terms of Payment

16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the **SCC.**

16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.

16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the bid price is expressed.

16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the **SCC,** the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the **SCC,** for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.

17. Taxes and

17.1 For goods manufactured outside the Purchaser's Country, the Supplier shall be entirely responsible for all taxes, stamp

Duties

duties, license fees, and other such levies imposed outside the Purchaser's Country.

17.2 For goods Manufactured within the Purchaser's country, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

18. Performance Security

18.1 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the **SCC.**

18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

18.3 As specified in the SCC, the Performance Security, if required, shall be denominated in the currency(ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the format stipulated by the Purchaser in the **SCC,** or in another format acceptable to the Purchaser.

18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the **SCC.**

19. Copyright

19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party

20. Confidential Information

20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding

the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.

20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

(a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;

(b) now or hereafter enters the public domain through no fault of that party;

(c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or

(d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards

22.1 Technical Specifications and Drawings

(a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of

Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.

(b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

(c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the **SCC,** and in any other instructions ordered by the Purchaser.

24. Insurance

24.1 Unless otherwise specified in the **SCC,** the Goods supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the **SCC.**

25. Transportation

25.1 Unless otherwise specified in the **SCC,** responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.

26. Inspections and Tests

26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **SCC.**

26.2 The inspections and tests may be conducted on the premises of

the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as specified in the **SCC.** Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.

26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.

26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those **SCC.** Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

28.3 Unless otherwise specified in the **SCC,** the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC,** or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC,** expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC,** the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any

and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and

(b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or

designed by or on behalf of the Purchaser.

30. Limitation of Liability

30.1 Except in cases of criminal negligence or willful misconduct,

(a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and

(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement

31. Change in Laws and Regulations

31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause

thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

33. Change Orders and Contract Amendments

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

(a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;

(b) the method of shipment or packing;

(c) the place of delivery; and

(d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

34. Extensions of Time

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:

(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;

(ii) if the Supplier fails to perform any other obligation under the Contract; or

(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.

(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

(a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

35.3 Termination for Convenience.

(a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

(b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt

of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(i) to have any portion completed and delivered at the Contract terms and prices; and/or

(ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

37. Export Restriction

37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/goods, systems or services, and which substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser and of the Bank that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract. Termination of the Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 35.3.

Section VIII. Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(j)	The Purchaser's country is: Nepal
GCC 1.1(k)	The Purchaser is: Ministry of Health and Population, Department of Health Services, Logistics Management Division, Pachali, Teku, Kathmandu
GCC 1.1 (q)	The Project Site(s)/Final Destination(s) are: the Hospitals and Primary Health Care Centres covered by the District Health Project: (a) Bheri Zonal Hospital, Nepalgunj, (b) Bardiya District Hospital, (c) Sorahawa Primary Health Care Centre, (d) Rajapur Primary Health Care Centre, (e) Dhading District Hospital, (f) Gajuri Primary Health Care Centre. (g) Department of Healht Services, Management Division, PAM Unit, Kathmandu
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms.
GCC 4.2 (b)	The version edition of Incoterms shall be: edition 2000
GCC 5.1	The language shall be: English
GCC 8.1	For **notices**, the Purchaser's address shall be: Attention: Director, DoHS/Logistics Management Division Street Address: Pachali, Teku Floor/ Room number: First floor-Procurement Section City: Kathmandu Country: Nepal Telephone: 00977-1-4261768 Facsimile number: 977-1-4261413 (Attention: Director, LM Division) Electronic mail address: Bikash_moon@yahoo.com
GCC 9.1	The governing law shall be the law of: Nepal
GCC 10.2	The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows: ***(a) Contract with foreign Supplier:*** GCC 10.2 (a)—Any dispute, controversy or claim arising out of or relating to this Contract, or breach, termination or invalidity thereof, shall be settled by arbitration in accordance

	with the UNCITRAL Arbitration Rules as at present in force. ***(a)*** **Contracts with Nepali National Supplier*:*** GCC 10.2 (b): i) In case of Dispute or difference arising between the Purchaser and a supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration Act, 2055 (1999). The arbitral tribunal shall consist of 3 arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed in accordance with the provisions of the Nepal Arbitration Act 2055 (1999) or latest version. ii) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) above, within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the appointment of the Arbitrator shall be made in accordance with the provisions of the Arbitration Act, 2055 (1999). iii) The venue of Arbitration shall be Kathmandu and the language of the arbitration proceedings and that of all councils and communications between the parties shall be English. iv) The majority decision of arbitrators shall be final and binding upon parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. v) The provisions of the Arbitration Act, 2055 (1999) along with the Rules herewith and any statutory modification or reenactment thereof shall apply to arbitration proceedings. vi) If a dispute under the supplier contract raises the same issues as those in respect of a related dispute with another supplier contract, the Purchaser will have the option of having the arbitration proceedings joined.
GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are: i. Two copies of the Supplier's invoice showing goods description, quantity, unit price, total amount with separation of any customs duty, sales taxes or other similar taxes; ii. Original copy of consignment note as applicable; iii. Two copies of packing list identifying contents of each case or package; iv. Two copies of manufacturer's guarantee certificate; v. Two copies of manufacturer's test certificates;

	vi. Certificate of origin of goods; vii. Two Copies of Insurance certificates; valid for the period till installation and commissioning is completed. The Purchaser before arrival of the Goods shall receive the above documents and, if not received, the Supplier will be responsible for any consequent expenses.
GCC 15.2	The prices charged for the Goods supplied and the related Services performed shall not be adjustable.
GCC 16.1	GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: **Payment for Goods and Services supplied:** Payment for Goods and Services supplied shall be made as follows: (i) **Advance Payment:** Twenty (20) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract, and upon submission of claim and a bank guarantee for equivalent amount valid until the Goods are delivered in the form provided in Section IX, Advance Payment Bank Guarantee. (ii) **On delivery to destination:** Seventy (70) percent of the Contract Price of the Goods shipped shall be paid within 30 days of submission of documents specified in GCC Clause 13 above by direct bank transfer to the Supplier's nominated bank account. (iii) **After Installation and acceptance:** Ten (10) percent of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods upon satisfactory installation of the goods upon submission of an invoice (showing Purchaser's name; the Contract number, loan number; description of payment and total amount, signed in original, stamped or sealed with the company stamp/seal) supported by the Acceptance Certificate issued by the Purchaser. (iv) 1.5% of the total contract value will be deducted as advance tax deduction in case of Nepalese suppliers in accordance with tax regulations.
GCC 16.5	The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 45 days. The interest rate that shall be applied is 8 % for NPR and 4 % for other currencies.
GCC 18.1	A Performance Security shallbe required. Performance security shall be for an amount equal to ten (10) percent of the contract price. Performance Security should be issued by a Class A commercial bank in Nepal. In case of a Performance Security issued by a foreign bank, it shall be

	counter-guaranteed by a bank in Nepal. The security for performance shall cover the entire delivery period and the warranty period.
GCC 18.3	The Performance Security shall be in the form of a Bank Guarantee in format given in Section IX.

GCC 23.2	The Packing, Marking and Documentation within and outside the packages shall be: **Packing:** The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. All shipping package cartons/crates/pallets shall be new and be of sufficient strength to withstand the rigours of transit. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration where appropriate, the remoteness of the goods' final destination and the absence of the heavy handling facilities at all points in transit. The packaging shall also take into account any specific requirement of a good such as temperature limitation or fragility. The Packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as described below. **Marking:** Each case/package shall have the following information printed in **BOLD LETTERS** on the outside and the size of the letters shall not be smaller that 2cm in height. Destination: Name(s) of the Final Destination/Project Site Name of Consignee: *Government of Nepal, Department of Health Services, Logistics Management Division* Contract Number: Name of the Manufacturer/Supplier: Name of the Good: Date of manufacture of Good: Special Handling Instructions Case/Package Identification Number: Gross and Net Weight: Other instructions to shippers and warehouse personnel (as appropriate) **Documentation:** Each case/ package shall contain 2 copies of packing list. The packing list shall contain following minimum information related to goods: a) Name of the Good b) Name of the manufacturer c) Country of origin of Good d) Date of manufacture e) Quantities of items inside the case/ package
GCC 24.1	The insurance shall be as specified in the applicable Incoterms (DDU). The insurance shall be in an amount equal to 110 percent of the DDU value of the Goods from "warehouse" to "warehouse" on "All Risks" basis, including war risks and strikes.

GCC 25.1	The Supplier is required under the Contract to transport the Goods to the designated health facilities in Nepal including insurance and storage. This shall be arranged by the Supplier, and related costs shall be included in the Contract Price.
GCC 26.1	The inspections and tests shall be: as specified in Schedule of Requirement Part of bid documents (Section VI)
GCC 26.2	The inspections and tests will be conducted on the Premises of the supplier/manufacturer or at the Good's final destination at the discretion of the Purchaser.
GCC 27.1	Applicable rate for the Liquidated damages is: 0.05% percent per each delayed day of the price of the delayed goods.
GCC 27.1	The maximum amount of liquidated damages shall be: 10%
GCC 28.3	The period of validity of the Warranty shall be 24 months after acceptance of the Goods for items for which this is specified as par Part VI, Schedule of Requirements, Table 2.List of requirements for manufacturer's authorization, warranty period, related services and completion schedule For purposes of the Warranty, the place(s) of final destination(s) shall be as defined in Section VI, Schedule of Requirements, List of Goods and Delivery Schedule.
GCC 28.5	Maximum period for replacing defective material: within 60 days of receipt of written request by the Purchaser. In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of warranty as specified in SCC 28.3, from the date of correction or replacement..

Section IX. Contract Forms

Table of Forms

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1. Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT is made

the *[insert:* ***number*** *]* day of *[insert:* ***month*** *]*, *[insert:* ***year*** *]*.

BETWEEN

(1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of .... of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called "the Purchaser"), and

(2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called "the Supplier").

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of *[insert Contract Price in words and figures, expressed in the Contract currency(ies)]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:

   (a) This Contract Agreement

   (b) Special Conditions of Contract

   (c) General Conditions of Contract

   (d) Technical Requirements (including Schedule of Requirements and Technical Specifications)

   (e) The Supplier's Bid and original Price Schedules

   (f) The Purchaser's Notification of Award

   (g) *[Add here any other document(s)]*

3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

2. Performance Security

Form No. 2 A: Security For Performance , in the Form of Performance Bond

(For Bids in Nepalese and Indian Currency)

To The Director,
Logistics Management Division,
Department of Health Services,
TEKU, PACHALI, KATHMANDU.

On ..... you concluded with ..... ("Contractor") a contract for ..... (project, object of contract) at a price of …….…… .....

In accordance with the provisions of the contract the Contractor is obligated to provide a performance bond for 10 % of the contract price.

We, the undersigned …….. (Guarantor), waiving all objections and defences under the aforementioned contract, hereby irrevocably and independently guarantee to pay on your first written demand an amount up to a total of ..... (in words: ……. ....) against your written declaration that the Contractor has failed to duly perform the aforementioned contract.

In the event of any claim under this guarantee, payment shall be effected to the Retention Account No. S.A. 131605 of the Department of Health Services in Nepal Rastra Bank, Thapathali, KATHMANDU.

This guarantee shall expire no later than …….

By this date we must have received any claims for payment by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after payment of the total amount to be claimed hereunder.

This guarantee is governed by the laws of ……

_____

_____

Place, Date Guarantor

Form No 2B : Security For Performance, in the Form of Performance Bond

(For Bids in Foreign Currency)

To The Director,
Logistics Management Division,
Department of Health Services,
TEKU, PACHALI, KATHMANDU.

On ..... you concluded with .....
("Contractor") a contract for ..... (project, object of contract) at a price of …….……
.....

In accordance with the provisions of the contract the Contractor is obligated to provide a performance bond for 10 % of the contract price.

We, the undersigned …….. (Guarantor), waiving all objections and defences under the aforementioned contract, hereby irrevocably and independently guarantee to pay on your first written demand an amount up to a total of ..... (in words: ....) against your written declaration that the Contractor has failed to duly perform the aforementioned contract.

In the event of any claim under this guarantee, payment shall be effected to KfW, (BIC: KFWIDEFF, BLZ 500 204 00) account no 38 000 000 00 (IBAN: DE53 5002 0400 3800 0000 00), for account of .... (project-executing agency/Buyer).

This guarantee shall expire no later than …….

By this date we must have received any claims for payment by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after payment of the total amount to be claimed hereunder.

This guarantee is governed by the laws of ……

_____ _____

Place, Date Guarantor

3. Bank Guarantee for Advance Payment

Form No. 3A : Security for Advance Payment, as Advance Payment Bond
(For Advance in Nepalese and Indian Currency)

To The Director,
Logistics Management Division,
Department of Health Services,
TEKU, PACHALI, KATHMANDU.

On ..... you concluded with ..... ("Contractor") a contract for ..... (project, object of contract) at a price of ……. .....

In accordance with the provisions of the contract the Contractor receives an advance payment in the amount of ……., which represents 20 % of the order value.

We, the undersigned …….. (Guarantor), waiving all objections and defences under the aforementioned contract, hereby irrevocably and independently guarantee to pay on your first written demand any amount advanced to the Contractor up to a total of ....(in words: .....) against your written declaration that the Contractor has failed to duly perform the aforementioned contract.

This guarantee shall come into force and effect as soon as the advance payment has been credited to the account of the Contractor.

In the event of any claim under this guarantee, payment shall be effected to the Retention Account No. S.A. 131605 of the Department of Health Services in Nepal Rastra Bank, Thapathali, KATHMANDU.

This guarantee shall expire no later than …….

By this date we must have received any claims for payment by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after payment of the total amount to be claimed hereunder.

This guarantee is governed by the laws of ……

_____ _____

Place, date Guarantor

Form No 3B : Security For Advance Payment, as Advance Payment Bond

(For Advance in Foreign Currency)

To The Director,
Logistics Management Division,
Department of Health Services,
TEKU, PACHALI, KATHMANDU.

On ..... you concluded with ..... ("Contractor") a contract for ..... (project, object of contract) at a price of ..... ……..

In accordance with the provisions of the contract the Contractor receives an advance payment in the amount of ……., which represents 20 % of the order value.

We, the undersigned …….. (Guarantor), waiving all objections and defences under the aforementioned contract, hereby irrevocably and independently guarantee to pay on your first written demand any amount advanced to the Contractor up to a total of ..... (in words: ....) against your written declaration that the Contractor has failed to duly perform the aforementioned contract.

This guarantee shall come into force and effect as soon as the advance payment has been credited to the account of the Contractor.

In the event of any claim under this guarantee, payment shall be effected to KfW, (BIC: KFWIDEFF, BLZ 500 204 00) account no 38 000 000 00 (IBAN: DE53 5002 0400 3800 0000 00), for account of .... (Project-executing agency/Buyer).

This guarantee shall expire no later than …….

By this date we must have received any claims for payment by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after payment of the total amount to be claimed hereunder.

This guarantee is governed by the laws of ……

_____ _____

Place, date Guarantor